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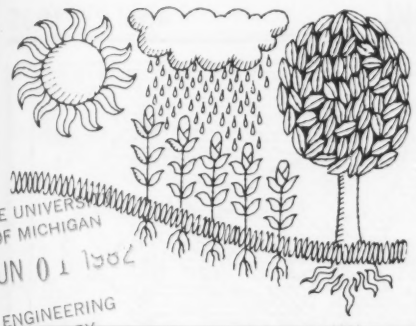

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WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service and World Agricultural Outlook Board

Volume 69, No. 17 WASHINGTON, D.C. April 27, 1982

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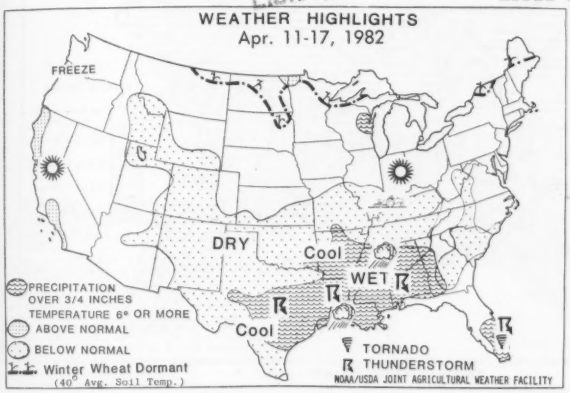
National Weather Summary

April 18-24, 1982



HIGHLIGHTS: Average temperatures for the week were cooler than normal from New Mexico and Texas, throughout the Rocky Mountain region, and to the western portion of the Northeast. The average temperature was 8 to 12° cooler than normal from Kentucky to western Texas. The northern Plains, the west coast, and Florida were warmer than normal. Most of the Nation had a dry week, but much of the South received excessive rain. Thunderstorms produced torrential rains and tornadoes in southern Florida, and heavy downpours triggered local flooding along the central gulf coast.

SUNDAY...Moist airflow from the Gulf of Mexico triggered showers and a few thunderstorms from eastern Texas into eastern Kansas. Rainshowers turned to snow late in the day through the High Plains from Montana to Nebraska. Moderate to severe thunderstorms developed from Arkansas through northern Alabama. Cold weather spread over the Plateau, and freezing temperatures spilled into parts of Oregon's Willamette Valley.

MONDAY...Freezing temperatures reached the coast of Washington and most of Oregon when cold weather spread over the Plateau. Little or no precipitation fell west of the Rockies, but much of the East had showers. Snow mixed with rain changed to all snow late in the day through the northern Plains and Great Lakes region. Showers and thundershowers dotted the area from central Texas to the lower Great Lakes, and severe thunderstorms poured heavy rain and hail over Mississippi, Alabama, and Georgia.

TUESDAY...A cold front moving eastward caused showers and thunderstorms from eastern Texas through the Ohio Valley and the central Great Lakes to the Atlantic Ocean. Severe thunderstorms produced tornadoes, hail, high wind, and heavy downpours from eastern Texas into Alabama. Some light snow fell from eastern Colorado into the Dakotas. Cool weather continued through the Plains, the Plateau, and across the Cascades to the Pacific Northwest coast.

WEDNESDAY...Freezing temperatures reached into Arizona, New Mexico, the Texas Panhandle, and northeastward to the eastern Great Lakes region. Cold weather continued over the Plateau, but it was not as cold over western Washington and Oregon. A few showers lingered in the Northeast and along the Atlantic coast. Thunderstorms spawned severe weather and heavy rain in the lower Mississippi Delta and eastern Texas. Some showers pushed into western Texas where the moisture was badly needed.

THURSDAY...Showers and thunderstorms continued along the western gulf coast and spread westward through Texas to the southern Rockies. The continuing heavy rain caused some flooding in southeastern Texas, but the light to moderate showers were welcome in the very dry western Texas and New Mexico. Cool weather over the Plateau gave way to an unusually warm day in that area.

FRIDAY...Cool weather continued across the South and the East but sunny skies brought unusually warm weather to the north central States. Eighty-degree readings reached through the Dakotas to southern Canada. Light to moderate showers continued in central Texas and, late in the day, light showers spread through western Texas to New Mexico and Colorado. The showers dampened western Colorado, but only traces of moisture fell in the very dry eastern portion of the State. Showers and thunderstorms were scattered along Florida's east coast and the Keys.

(cont. on backcover)

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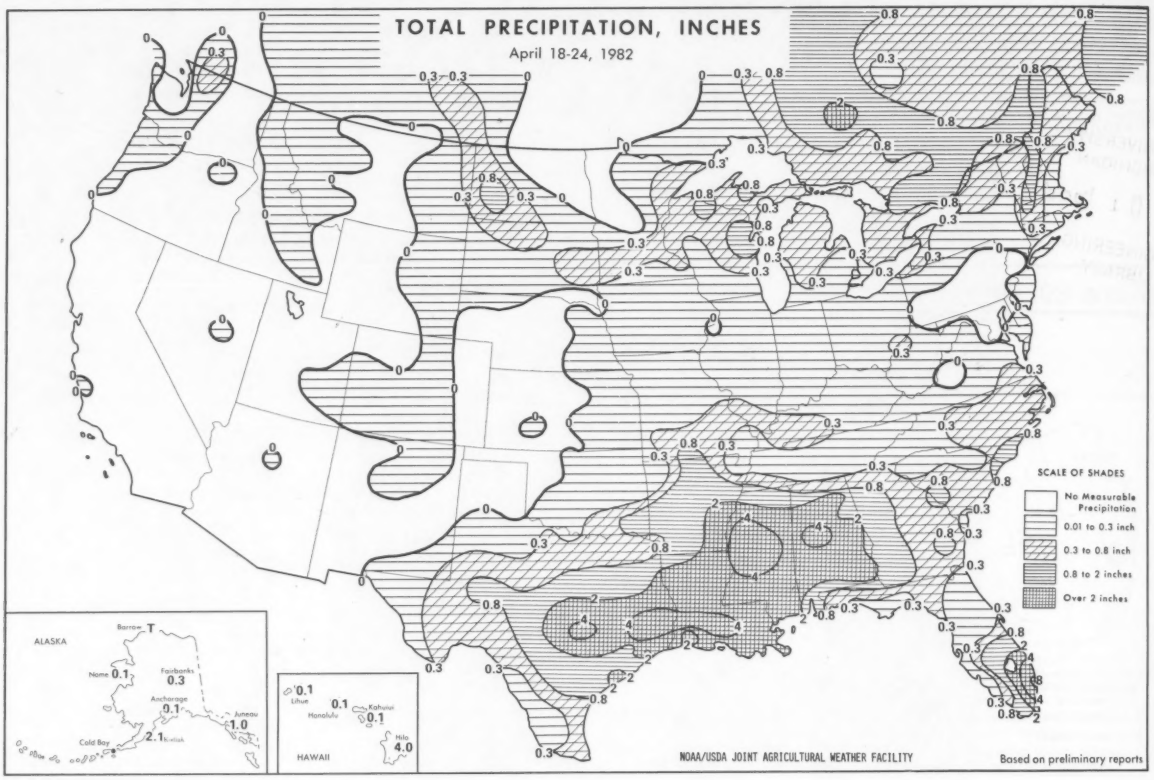
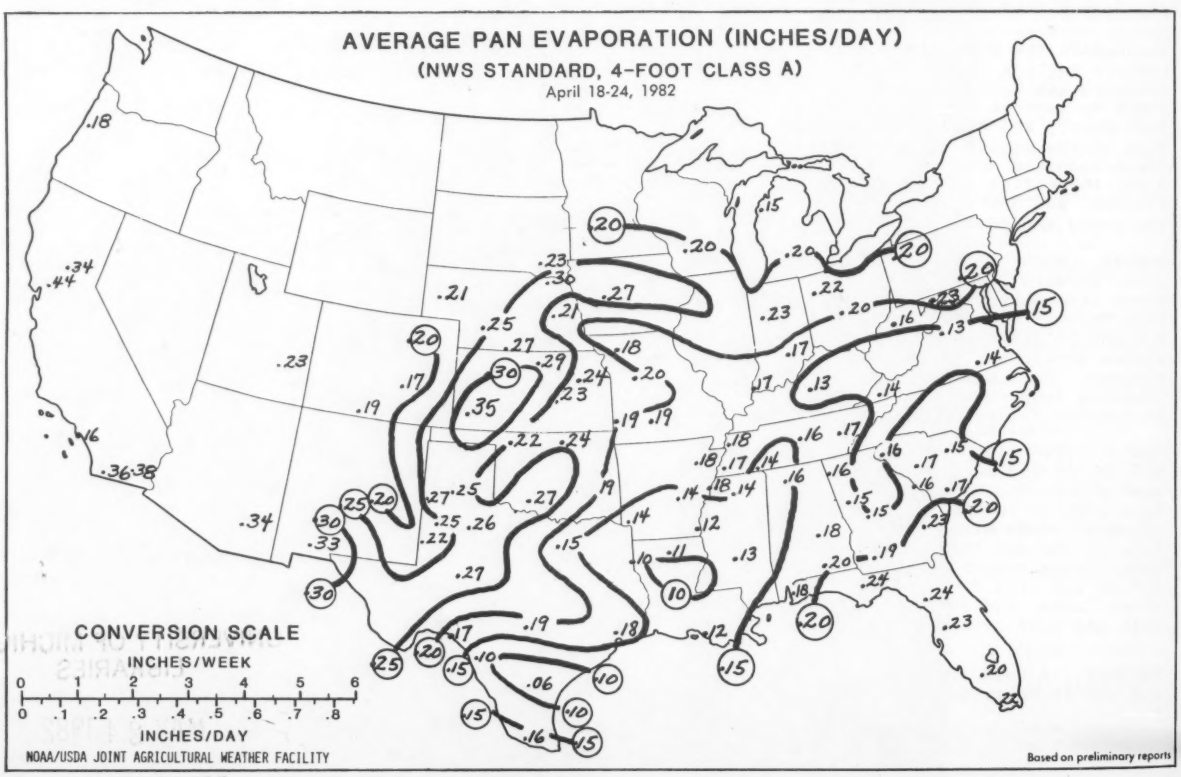
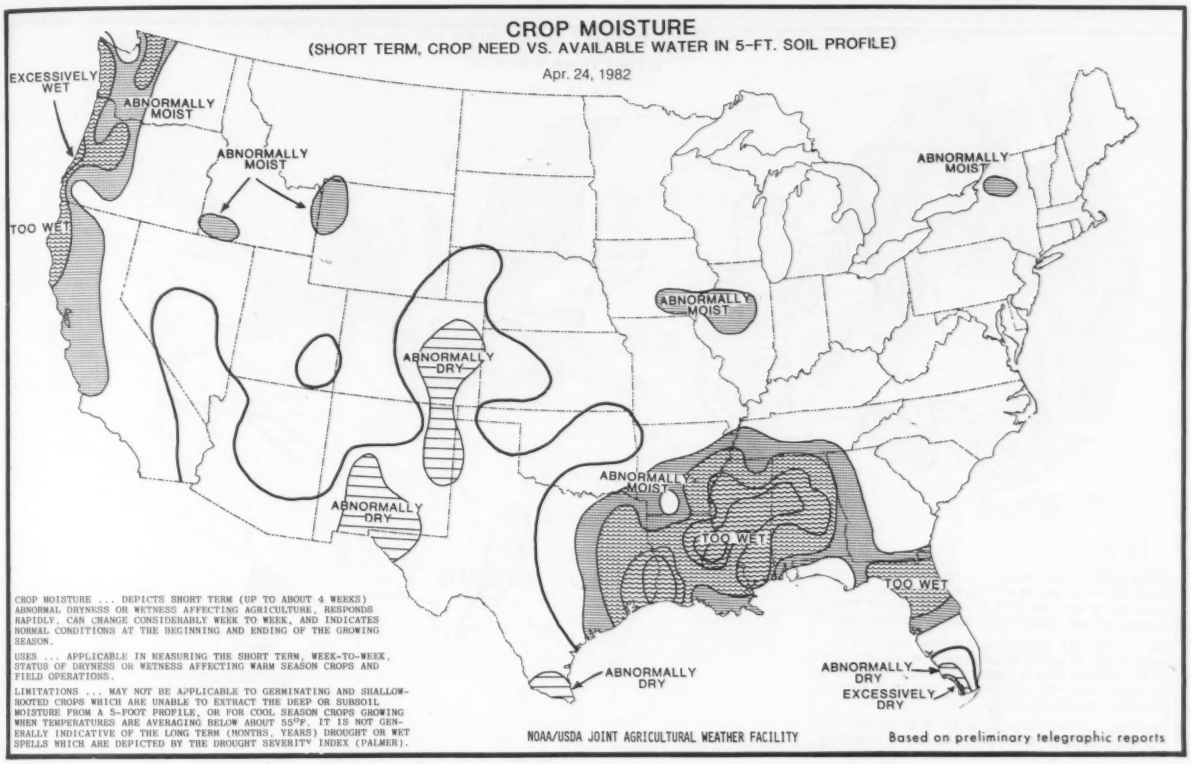
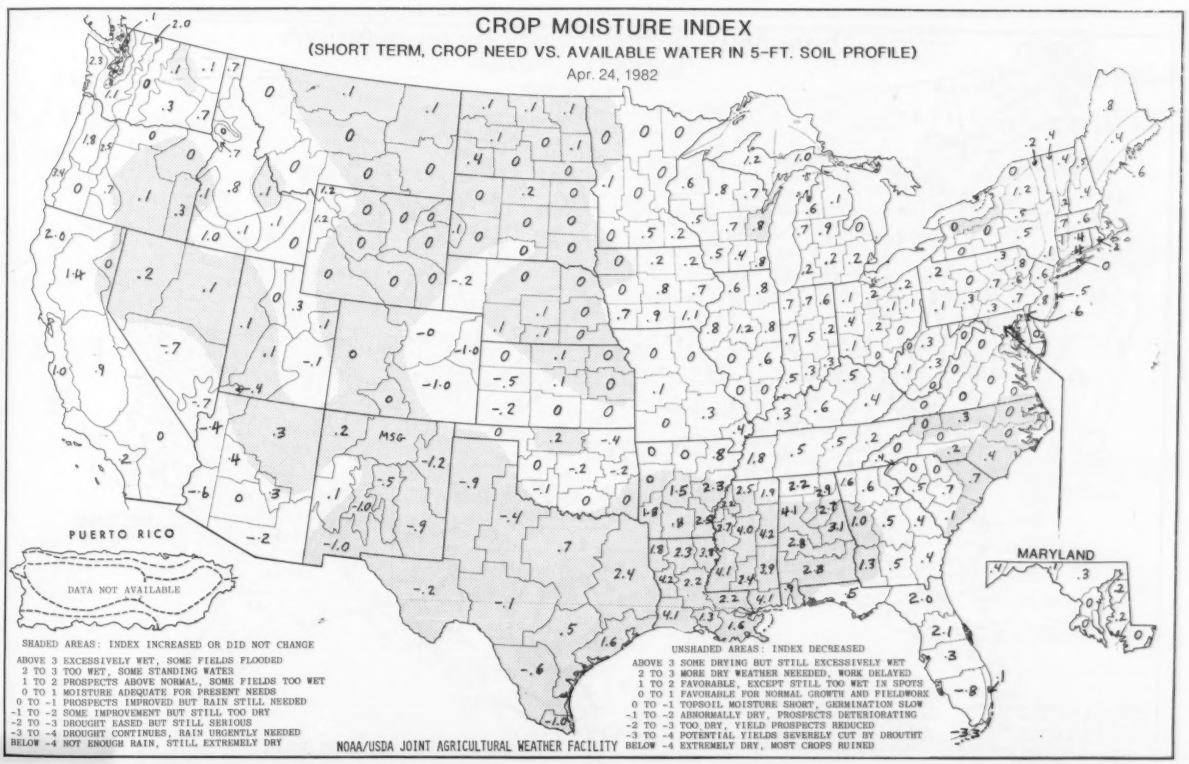
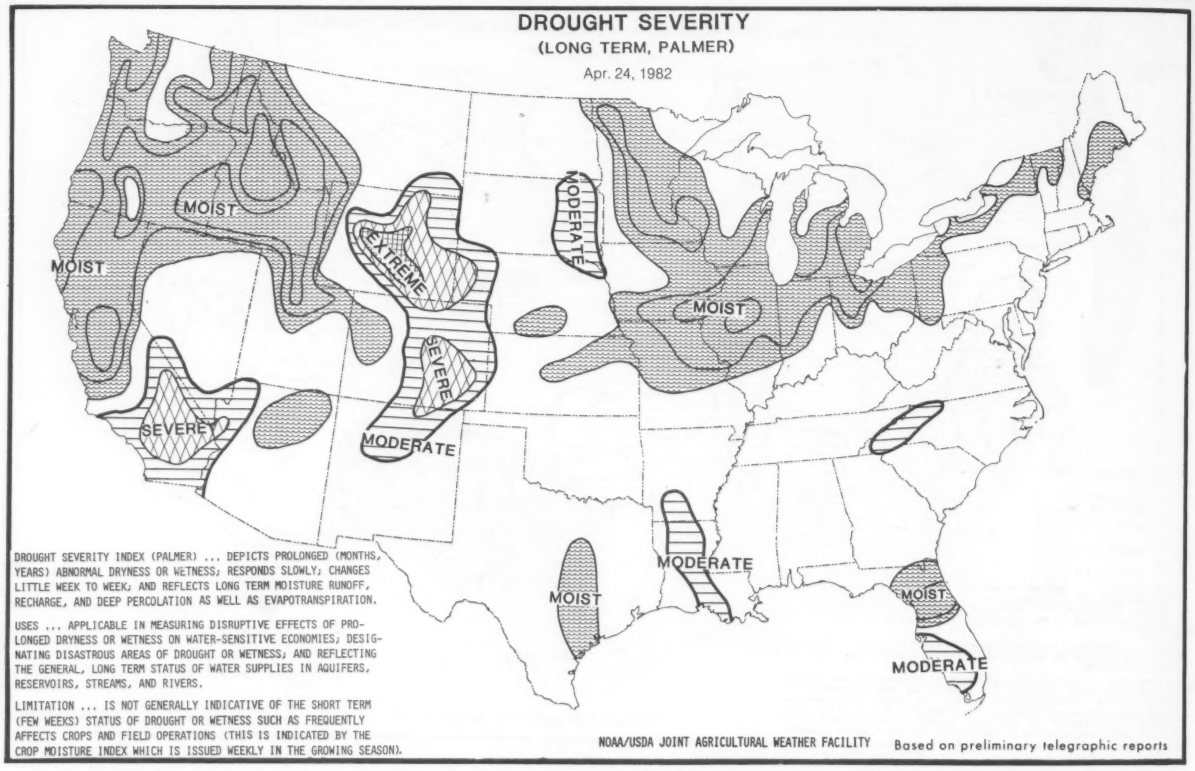
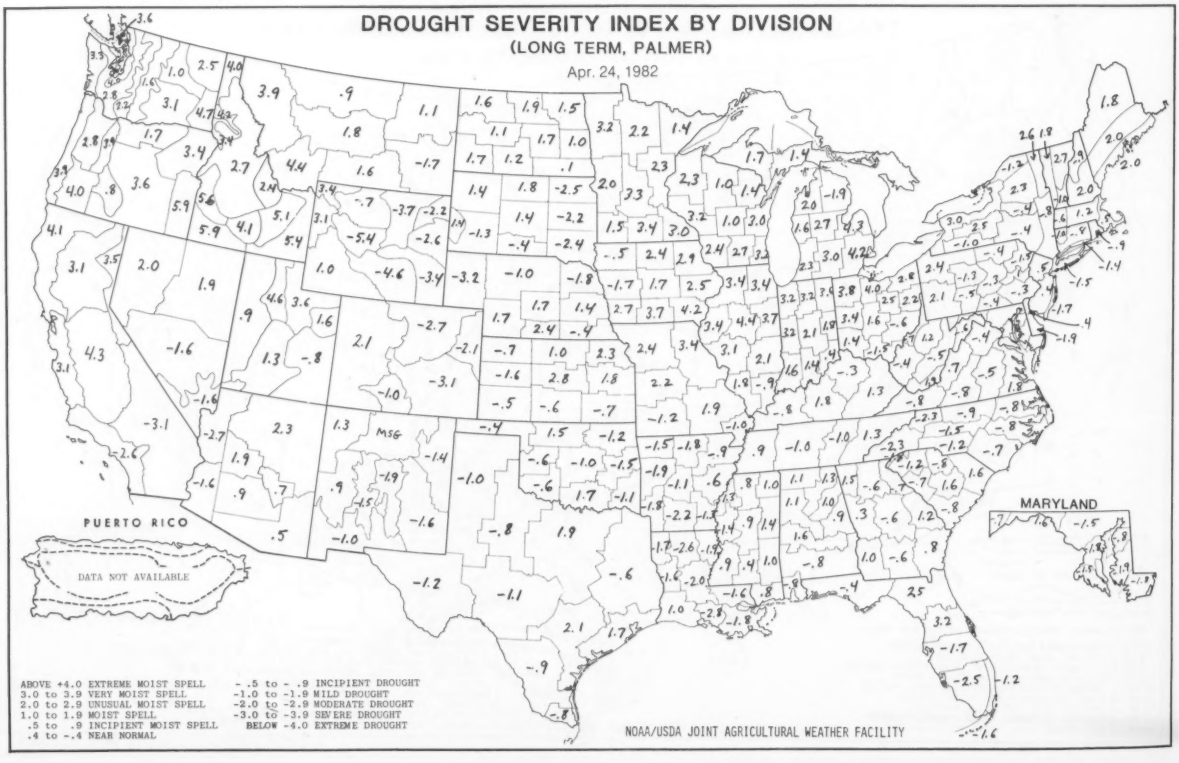

TOTAL PRECIPITATION, INCHES
April 18-24, 1982
SCALE OF SHADES
No Measurable Precipitation
0.01 to 0.3 inch
0.3 to 0.8 inch
0.8 to 2 inches
Over 2 inches
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

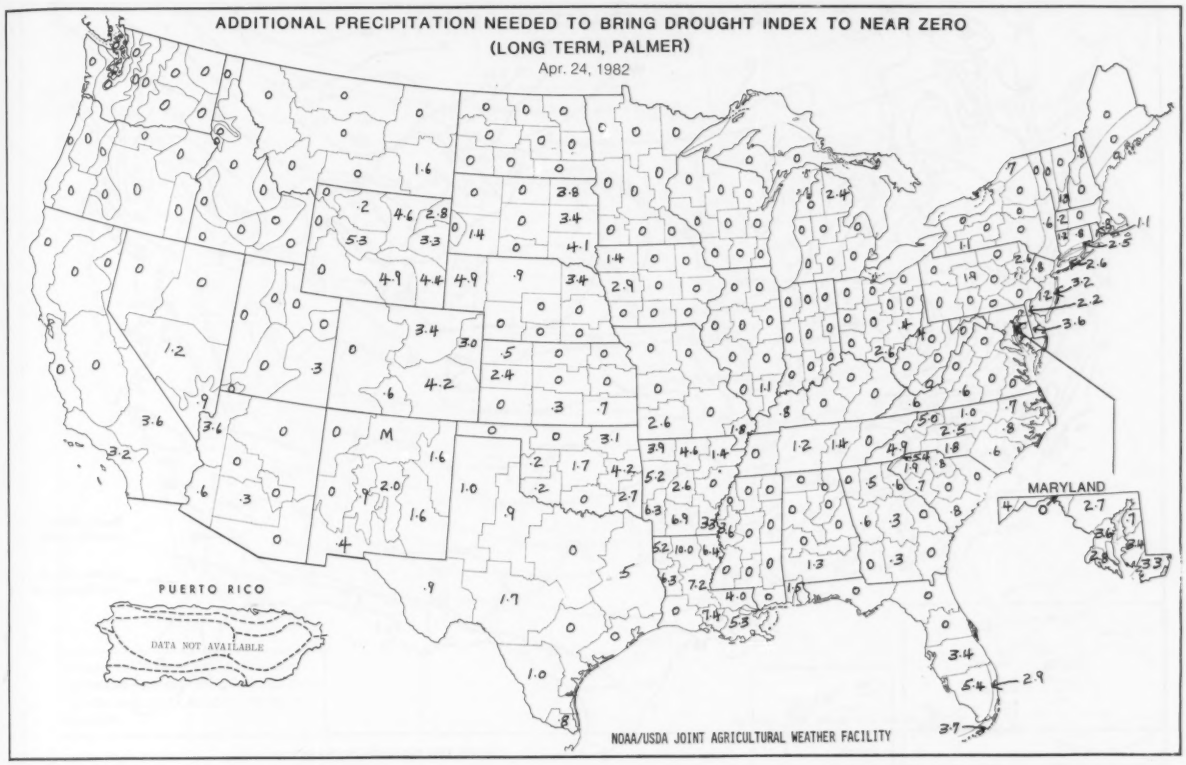

AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
April 18-24, 1982
CONVERSION SCALE
INCHES/WEEK
INCHES/DAY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

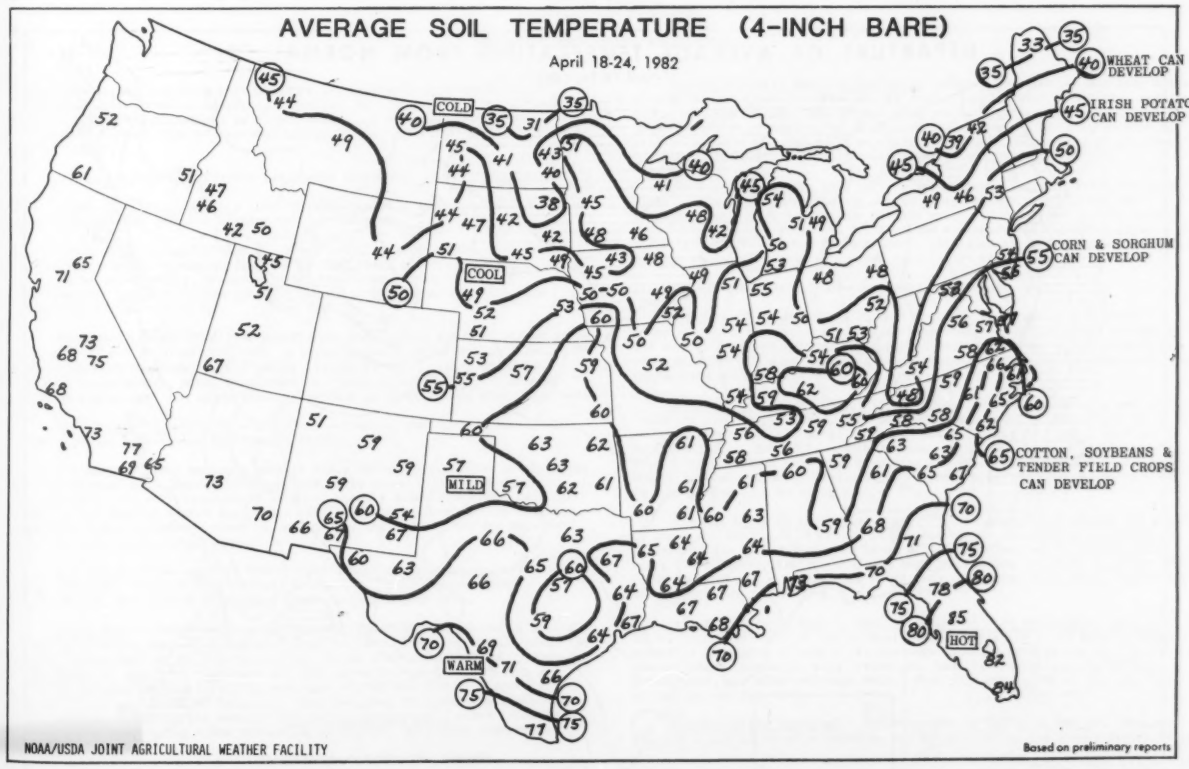

CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Apr. 24, 1982
EXCESSIVELY WET
ABNORMALLY MOIST
TOO WET
ABNORMALLY DRY
EXCESSIVELY DRY
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.
USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW-ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX (PALMER).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

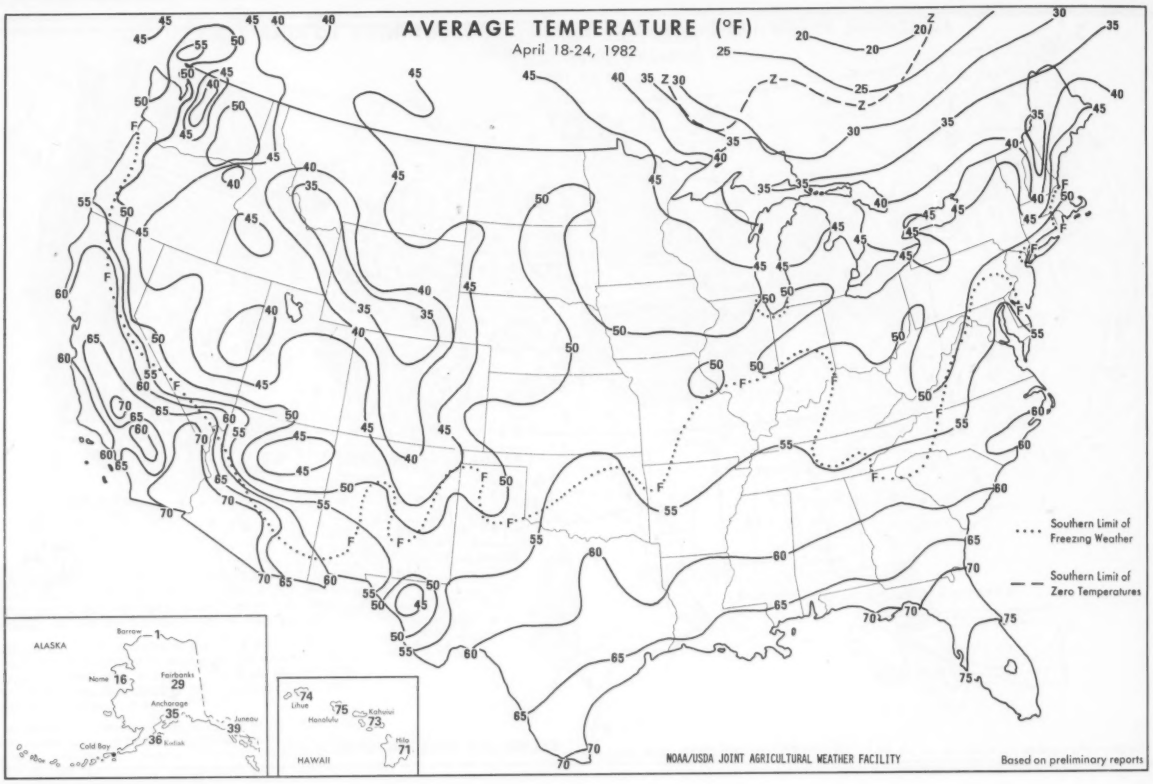

CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Apr. 24, 1982
PUERTO RICO
DATA NOT AVAILABLE
MARYLAND
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUTHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

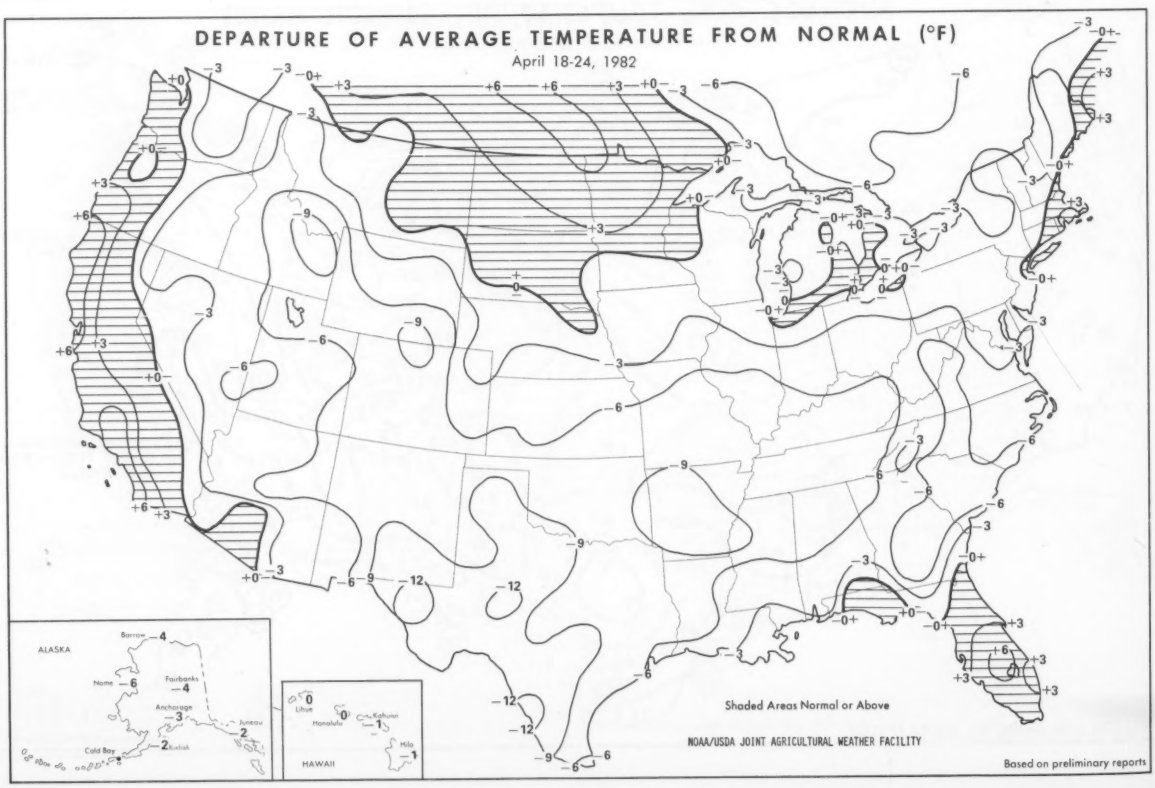

DROUGHT SEVERITY
(LONG TERM, PALMER)
Apr. 24, 1982
MOIST
MOIST
EXTREME
SEVERE
SEVERE
MODERATE
MODERATE
MOIST
MOIST
MODERATE
MOIST
MODERATE
DROUGHT SEVERITY INDEX (PALMER) ... DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE WEEK TO WEEK; AND REFLECTS LONG TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.
USES ... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER-SENSITIVE ECONOMIES; DESIGNATING DISASTROUS AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL, LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, STREAMS, AND RIVERS.
LIMITATION ... IS NOT GENERALLY INDICATIVE OF THE SHORT TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX WHICH IS ISSUED WEEKLY IN THE GROWING SEASON).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

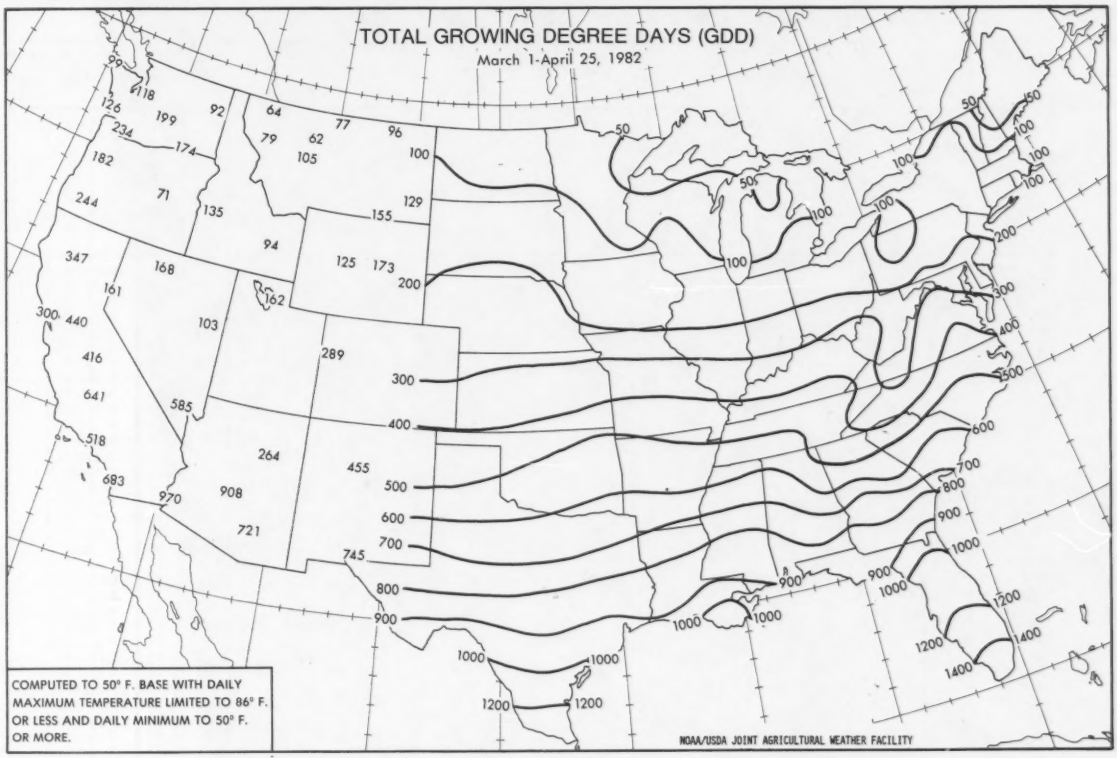

DROUGHT SEVERITY INDEX BY DIVISION
(LONG TERM, PALMER)
Apr. 24, 1982
PUERTO RICO
DATA NOT AVAILABLE
MARYLAND
MSG
ABOVE +4.0 EXTREME MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
1.0 to 1.9 MOIST SPELL
.5 to .9 INCIPIENT MOIST SPELL
.4 to -.4 NEAR NORMAL
-.5 to -.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


ADDITIONAL PRECIPITATION NEEDED TO BRING DROUGHT INDEX TO NEAR ZERO
(LONG TERM, PALMER)
Apr. 24, 1982
PUERTO RICO
DATA NOT AVAILABLE
MARYLAND
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


AVERAGE SOIL TEMPERATURE (4-INCH BARE)
April 18-24, 1982
COLD
COOL
MILD
WARM
HOT
WHEAT CAN DEVELOP
IRISH POTATOES CAN DEVELOP
CORN & SORGHUM CAN DEVELOP
COTTON, SOYBEANS & TENDER FIELD CROPS CAN DEVELOP
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE TEMPERATURE (°F)
April 18-24, 1982
Southern Limit of Freezing Weather
Southern Limit of Zero Temperatures
ALASKA
Barrow 1
Nome 16
Fairbanks 29
Anchorage 35
Juneau 39
Cold Bay 36
Kodiak
HAWAII
Lihue 74
Honolulu 75
Kahului 73
Hilo 71
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
April 18-24, 1982
ALASKA
Barrow 4
Nome 6
Fairbanks 4
Anchorage 3
Juneau 2
Cold Bay 2
Kodiak
HAWAII
Lihue 0
Honolulu 0
Kahului 1
Hilo 1
Shaded Areas Normal or Above
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


TOTAL GROWING DEGREE DAYS (GDD)
March 1-April 25, 1982
COMPUTED TO 50° F. BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F. OR LESS AND DAILY MINIMUM TO 50° F. OR MORE.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Federal Building
Asheville, NC 28801-2696

SELECTED CLIMATOLOGICAL PUBLICATIONS

All publications listed in this brochure are available from the National Climatic Center, Federal Building, Asheville, NC 28801-2696. The minimum cost for shelf stock publications is $3 per order. If the publication is out of print, the current cost of reproduction is 35 cents per page with a minimum of $5 per order.

I. CURRENT SERIAL PUBLICATIONS (available separately or on subscription):

Local Climatological Data (LCD) - Issued monthly and annually for each of approximately 285 National Weather Service stations.

The monthly issue includes daily and monthly temperatures, dew point temperatures, heating and cooling degree days (base 65° F), weather, precipitation, snowfall, pressure, wind, sunshine, and sky cover. Three-hourly weather observations and hourly precipitation data are also presented for most stations.

The annual issue summarizes monthly and annual data for the current year for most of the same 285 stations. A climatological narrative, a "Normals, Means, and Extremes" table, and tables listing by month, year, or season, average temperatures, total precipitation, total snowfall, and heating and cooling degree days for approximately the last 20-40 years are also presented.

Climatological Data (CD) - A monthly and annual publication issued for each state or combination of adjacent states.

The monthly issue contains station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall and snow depth, evaporation, and soil temperature data. A monthly summary of these data and heating and cooling degree days (base 65° F) is also presented. In addition, the July issue contains a recap of monthly heating degree days and snow data for the past season (July through June).

The annual issue contains monthly and annual average temperatures, total precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly total cooling degree days.

Storm Data - Issued monthly and includes data for each of the 50 states. This publication presents the place, time, character, and estimated damage (by broad categories) of all reported severe storms or unusual weather phenomena. The number of deaths and injuries are also shown for each event. Data are divided chronologically by state, and place within the state. A short narrative of each storm is included. Also included are special articles on "Outstanding Storms of the Month," descriptive photographs, storm track maps, and a table summarizing storm statistics by states. No annual summary is issued.

Monthly Climatic Data For the World (MCDW) - Contains monthly mean values of surface and upper air measurements from a large number of selected stations throughout the worrld. The surface elements included are pressure, temperature, vapor pressure, precipitation, and sunshine. The upper air data consist of height, temperature, dew point depression, and mean vector wind at standard constant pressure levels. No annual summary is issued.

Hourly Precipitation Data (HPD) - Issued monthly and annually for each state or combination of adjacent states except Alaska. Hourly and daily precipitation values and monthly maximum amount of precipitation for select time categories are presented for stations equipped with recording gages. The annual issue contains monthly and annual totals of precipitation and annual maximum amount of precipitation for select time categories.

II. UNSCHEDULED PUBLICATIONS (available upon request only):

Climates of the World - A 28 page brochure which presents average temperature and precipitation data for approximately 800 stations throughout the world. It also includes brief narrative descriptions of the climate of each continent and maps depicting the annual average worldwide distribution of temperature and precipitation.

World Weather Records, 1961-70 (6 volumes) - Contains monthly and annual tables of mean temperatures, mean pressures, and total precipitation for most stations throughout the world for which complete data for the 10 year period were available. Volume 1 - North America, Volume 2 - Europe, and Volume 6 Islands of the World have been completed and published. Volumes 3, 4, and 5 are in various stages of development. There are earlier issues covering every 10 year period back to about 1900.

Climatic Atlas of the United States - An 80 page, large format (16 inch X 22 inch) collection of 231 maps, 21 graphs, and 13 tabulations depicting the climate of the United States in terms of the distribution and variation of temperature, precipitation, wind, barometric pressure, relative humidity, dew point temperature, sunshine, sky cover, heating degree days, solar radiation, and evaporation.

Selected Climatic Maps of the United States - An abbreviated version (8 1/2 inch X 11 inch) of the Climatic Atlas consisting of 32 maps. Designed primarily for quick reference, it includes climatic information on temperature, precipitation, sunshine, solar radiation, heating and cooling degree days, freeze data, and other selected data. Most maps are annual or for the months of January and July only.

Climatological Summaries - Climatography of the U. S. No. 20. Prepared for over 2,000 cooperative stations and are similar to the annual issues of the

(cont. on page 19)

Weather Data for the Week Ending April 24, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	69	46	74	36	57	-8	2.1	1.1	1.7	9.0	86	22.5	120	89	36	0	0	3	1
MOBILE	75	58	82	51	66	-3	1.2	0	.9	6.7	57	19.4	102	83	52	0	0	5	1
MONTGOMERY	71	55	76	47	63	-4	2.6	1.7	1.8	9.8	99	24.3	148	79	45	0	0	3	2
AK ANCHORAGE	41	29	47	23	35	-3	.1	0	.1	.6	60	1.3	54	84	47	0	6	3	0
BARROW	7	-9	18	-21	-1	-4	T	0	T	.5	125	1.1	122	85	63	0	7	2	0
FAIRBANKS	39	18	47	7	29	-4	.3	.2	.3	1.1	138	1.8	113	77	41	0	7	1	0
JUNEAU	45	32	50	26	39	-2	1.0	.3	.7	7.9	132	12.2	99	88	60	0	3	3	1
KODIAK	41	31	49	20	36	-2	2.1	1.2	.9	4.7	67	16.2	103	93	67	0	3	5	2
NOME	24	8	32	-16	16	-6	.1	0	T	1.6	107	4.6	159	76	59	0	7	5	0
AZ PHOENIX	84	57	93	53	71	2	0	- .1	0	1.3	118	2.8	127	32	8	2	0	0	0
PRESCOTT	61	31	70	23	46	-8	T	- .2	T	2.1	88	5.1	98	75	19	0	3	0	0
TUCSON	79	47	84	40	63	-3	0	- .1	0	1.3	118	2.9	112	31	9	0	0	0	0
YUMA	86	59	94	51	72	0	0	0	0	.9	180	1.6	160	31	11	2	0	0	0
AR FORT SMITH	65	42	69	33	53	-11	.2	- 1.0	.1	2.8	36	8.2	67	86	37	0	0	2	0
LITTLE ROCK	63	47	66	45	55	-10	1.6	.3	1.0	8.3	88	18.4	112	82	46	0	0	3	2
CA BAKERSFIELD	86	58	90	53	72	8	0	- .2	0	2.4	150	3.9	118	57	17	1	0	0	0
EUREKA	68	45	79	39	56	6	0	- .6	0	12.8	166	23.1	123	85	50	0	0	0	0
FRESNO	80	49	84	46	64	3	0	- .3	0	5.7	197	8.4	147	90	30	0	0	0	0
LOS ANGELES	75	55	83	52	65	6	0	- .2	0	5.2	163	8.6	118	84	38	0	0	0	0
RED BLUFF	76	50	79	44	63	2	0	- .4	0	4.8	109	10.0	90	64	23	0	0	0	0
SACRAMENTO	75	48	78	45	62	2	0	- .3	0	9.1	212	17.2	164	75	32	0	0	0	0
SAN DIEGO	77	58	82	57	68	6	0	- .2	0	4.9	223	8.8	163	80	36	0	0	0	0
SAN FRANCISCO	71	48	78	44	60	4	0	- .3	0	9.6	240	21.4	204	82	38	0	0	0	0
CO DENVER	58	28	71	20	43	-7	.1	- .4	.1	.4	15	.8	24	63	17	0	5	2	0
GRAND JUNCTION	62	34	72	26	48	-6	.1	- .1	.1	1.1	73	1.6	62	60	20	0	3	1	0
PUEBLO	63	31	78	22	47	-7	.1	- .3	.1	.2	11	1.0	45	68	19	0	5	1	0
CT BRIDGEPORT	63	40	71	30	52	1	.5	- .3	.5	3.6	56	12.5	115	65	27	0	1	1	0
HARTFORD	63	37	77	27	50	0	.3	- .6	.3	5.7	83	13.3	111	74	27	0	1	1	0
DC WASHINGTON	70	46	76	40	58	-1	T	- .7	T	4.3	74	9.7	97	69	25	0	0	0	0
FL APALACHICOLA	77	63	83	55	70	0	T	- .8	T	10.9	140	20.1	149	90	64	0	0	1	0
DAYTONA BEACH	79	66	87	61	73	2	.2	- .3	.2	11.7	213	16.2	167	91	60	0	0	1	0
JACKSONVILLE	82	59	91	54	70	1	.1	- .6	.1	7.6	123	12.2	103	97	53	1	0	2	0
KEY WEST	87	78	88	73	83	4	.9	.4	.9	4.5	132	6.4	102	79	59	0	0	2	1
MIAMI	86	72	88	67	79	3	7.3	6.4	7.3	12.2	244	13.4	161	87	54	0	0	2	1
ORLANDO	85	67	92	63	76	3	.2	- .4	.1	9.7	164	13.0	129	94	51	3	0	2	0
TALLAHASSEE	79	59	86	57	69	-1	.2	- .6	.2	7.6	81	16.7	101	93	46	0	0	4	0
TAMPA	83	65	88	62	74	1	.2	- .2	.2	4.3	74	8.3	81	99	58	0	0	2	0
WEST PALM BEACH	83	70	86	68	77	2	5.6	4.7	3.6	22.7	360	26.3	250	92	63	0	0	3	2
GA ATLANTA	68	48	73	42	58	-5	1.1	0	.7	8.1	79	19.7	113	75	37	0	0	3	1
AUGUSTA	70	44	80	33	57	-8	1.0	.3	1.0	4.5	57	12.0	88	98	42	0	0	2	1
MACON	72	50	78	41	61	-6	.8	0	.7	6.9	83	17.0	114	95	49	0	0	3	1
SAVANNAH	77	55	85	46	66	-2	.2	- .5	.2	4.5	64	10.9	92	87	41	0	0	1	0
HI HILO	77	65	81	62	71	-1	4.0	1.0	1.6	53.5	215	73.7	173	89	64	0	0	6	2
HONOLULU	82	69	85	66	75	0	.1	- .1	.1	4.7	107	19.9	191	76	52	0	0	2	0
KAHULUI	81	65	85	63	73	-1	.1	- .1	.1	6.5	159	19.3	201	84	57	0	0	1	0
LIHUE	80	68	83	63	74	0	.1	- .6	.1	14.0	189	33.0	200	91	62	0	0	2	0
ID BOISE	61	31	73	23	46	-5	T	- .3	T	2.0	91	4.9	107	69	20	0	4	0	0
LEWISTON	63	37	76	28	50	-2	0	- .3	0	1.4	78	4.4	122	64	28	0	2	0	0
POCATELLO	57	24	70	17	41	-7	T	- .3	T	2.9	145	5.2	137	71	21	0	6	0	0
IL CHICAGO	61	36	73	30	49	-3	T	- .8	T	6.8	128	10.2	134	87	32	0	3	1	0
MOLINE	63	35	72	28	49	-4	0	- .9	0	7.3	133	9.8	138	78	32	0	2	0	0
PEORIA	62	38	72	30	50	-4	T	- 1.0	T	10.4	165	14.2	165	80	36	0	1	1	0
QUINCY	59	39	67	31	49	-8	.1	- .8	.1	6.5	112	11.0	--	83	40	0	1	1	0
ROCKFORD	62	33	74	26	48	-3	.1	- .8	.1	7.0	117	8.3	104	92	34	0	3	1	0
SPRINGFIELD	63	37	70	29	50	-5	.1	- .9	.1	6.3	107	12.7	155	89	38	0	1	1	0
IN EVANSVILLE	65	39	74	35	52	-7	.1	- .8	.1	7.8	98	19.1	141	92	29	0	0	2	0
FORT WAYNE	62	37	70	32	49	-3	.1	- .7	.1	7.5	123	14.4	150	78	34	0	1	2	0
INDIANAPOLIS	63	38	71	33	51	-4	.1	- .8	.1	7.2	106	14.3	131	80	33	0	0	2	0
SOUTH BEND	62	38	71	30	50	0	.1	- .9	T	5.8	98	10.1	113	73	29	0	1	2	0
IA DES MOINES	63	38	71	31	50	-2	.1	- .6	.1	8.4	133	11.7	192	77	34	0	1	2	0
SIOUX CITY	64	35	75	27	49	-3	T	- .6	T	2.2	67	4.2	91	75	29	0	3	0	0
WATERLOO	61	35	73	23	48	-2	.2	- .7	.2	5.7	119	7.5	129	82	33	0	3	1	0
KS CONCORDIA	63	37	71	30	50	-5	.1	- .5	.1	4.0	118	5.2	121	73	29	0	3	1	0
DODGE CITY	65	37	79	27	51	-5	T	- .4	T	.8	35	2.3	79	71	26	0	1	1	0
GOODLAND	61	31	72	21	46	-5	0	- .4	0	.6	32	1.4	61	62	19	0	3	0	0
TOPEKA	67	35	72	25	51	-6	.1	- .9	.1	1.7	33	3.9	61	80	26	0	2	1	0
WICHITA	65	38	70	32	51	-8	.1	- .7	.1	2.1	53	4.6	92	77	28	0	1	1	0
KY BOWLING GREEN	63	40	70	34	52	-8	.7	- .2	.7	7.1	81	15.8	91	88	35	0	0	1	1
LEXINGTON	62	40	70	31	51	-6	.1	- .8	T	6.2	76	13.8	97	77	34	0	1	2	0
LOUISVILLE	65	39	73	33	52	-6	T	- .9	T	8.5	100	15.5	108	76	27	0	0	1	0
LA ALEXANDRIA	70	55	84	48	62	-6	2.4	1.1	.9	8.0	86	17.3	--	76	54	0	0	4	3
BATON ROUGE	74	59	86	53	67	-3	2.6	1.4	1.7	6.9	73	16.8	98	90	59	0	0	4	2
LAKE CHARLES	69	57	81	51	63	-7	1.8	.8	.9	6.8	91	11.3	77	97	71	0	0	4	2
NEW ORLEANS	75	63	86	55	69	-1	3.4	2.5	2.7	7.0	76	17.6	103	85	57	0	0	4	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending April 24, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	SHREVEPORT	67	52	79	43	60	-9	2.2	.9	1.0	5.4	63	12.2	82	88	56	0	0	5	2
ME	CARIBOU	47	29	51	25	38	-1	.5	- .1	.3	5.5	134	10.5	138	81	42	0	6	2	0
	PORTLAND	58	34	63	24	46	1	.2	- .6	.2	7.0	104	14.7	119	74	29	0	2	2	0
MD	BALTIMORE	67	40	73	31	53	-2	0	- .7	0	5.2	80	12.7	114	64	26	0	1	0	0
	SALISBURY	67	40	74	38	54	-3	.1	- .7	.1	5.0	72	13.5	108	87	28	0	0	1	0
MA	BOSTON	64	41	71	35	53	2	.1	- .7	.1	4.8	67	12.1	90	67	25	0	0	2	0
	CHATHAM	54	39	65	33	47	--	.2	--	.1	5.6	--	13.7	--	83	53	0	0	2	0
MI	ALPENA	55	33	78	25	44	2	.5	- .1	.4	4.0	103	6.0	100	70	34	0	4	2	0
	DETROIT	63	36	72	29	49	-1	.1	- .7	.1	4.8	91	9.2	115	75	28	0	2	2	0
	FLINT	62	36	72	27	49	1	.1	- .6	.1	3.4	77	5.9	87	78	33	0	2	2	0
	GRAND RAPIDS	60	34	70	25	47	-2	.3	- .5	.2	5.4	104	8.8	116	77	33	0	4	2	0
	HOUGHTON LAKE	55	31	68	25	43	-2	.5	0	.3	5.1	146	7.5	134	86	36	0	4	3	0
	LANSING	60	35	71	24	48	-1	.1	- .6	.1	3.6	75	6.1	81	86	34	0	3	2	0
	MARQUETTE	48	23	75	2	36	-4	1.0	.3	.7	6.6	157	10.9	160	86	40	0	5	3	1
	MUSKEGON	55	35	66	23	45	-3	.1	- .7	.1	4.6	90	9.5	117	78	39	0	4	2	0
	SAULT STE. MARIE	46	26	65	17	36	-5	.7	.1	.5	7.1	197	12.0	188	83	42	0	6	3	1
MN	ALEXANDRIA	60	36	77	26	48	3	0	- .6	0	4.5	150	6.9	192	77	30	0	4	0	0
	DULUTH	54	32	75	23	43	1	.4	- .2	.4	4.0	105	6.5	130	73	34	0	5	1	0
	INT'L FALLS	58	32	82	22	45	4	T	- .4	T	2.4	104	4.0	111	80	32	0	5	1	0
	MINNEAPOLIS	61	35	76	25	48	0	.6	.1	.4	3.4	113	6.5	159	78	28	0	3	2	0
	ROCHESTER	58	34	72	28	46	-2	.2	- .4	.1	4.1	114	6.1	142	84	41	0	3	2	0
MS	GREENWOOD	66	51	72	44	58	-8	5.6	4.4	3.3	11.5	110	22.4	--	87	48	0	0	3	2
	JACKSON	72	52	82	42	62	-6	4.3	3.3	2.3	10.1	105	19.7	117	96	47	0	0	4	2
	MERIDIAN	73	50	79	40	62	-6	3.2	2.0	1.7	9.3	87	19.2	107	89	45	0	0	4	2
MO	CAPE GIRARDEAU	64	41	70	35	53	-9	.1	- .9	.1	6.1	84	19.5	154	93	38	0	0	1	0
	COLUMBIA	63	39	70	32	51	-6	.2	- .8	.2	5.6	102	9.9	127	77	34	0	1	1	0
	KANSAS CITY	64	40	70	29	52	-5	.1	- .8	.1	3.7	69	7.5	109	72	28	0	1	2	0
	SAINT LOUIS	64	41	72	34	53	-6	.2	- .7	.2	4.7	76	11.2	123	82	31	0	0	1	0
	SPRINGFIELD	63	39	67	30	51	-8	.8	- .3	.8	3.9	58	8.7	96	81	33	0	1	1	1
MT	BILLINGS	62	34	78	23	48	1	T	- .4	T	3.1	119	4.1	121	61	19	0	4	0	0
	GLASGOW	61	34	78	24	47	1	T	- .2	T	.9	100	2.2	169	68	23	0	4	0	0
	GREAT FALLS	57	31	75	21	44	-2	T	- .3	T	3.0	167	5.1	155	61	21	0	4	1	0
	HAVRE	59	30	77	21	45	-2	0	- .3	0	.9	64	3.2	152	62	18	0	4	0	0
	HELENA	59	28	74	17	43	-2	T	- .2	T	1.9	146	3.4	179	72	20	0	6	0	0
	KALISPELL	56	24	74	17	40	-4	.1	- .2	.1	2.5	147	6.4	168	91	30	0	6	1	0
	MILES CITY	61	34	80	26	48	-1	.1	- .3	.1	1.1	65	2.3	100	83	27	0	2	1	0
	MISSOULA	58	28	74	20	43	-3	.1	- .2	.1	2.8	187	6.1	203	83	25	0	6	2	0
NE	GRAND ISLAND	65	34	75	22	50	-3	0	- .6	0	2.5	83	3.7	95	68	21	0	3	0	0
	LINCOLN	64	35	74	26	50	-4	.1	- .5	.1	4.0	114	4.9	104	76	26	0	3	1	0
	NORFOLK	65	37	75	27	51	0	T	- .5	T	2.6	93	4.6	121	63	21	0	3	1	0
	NORTH PLATTE	63	32	73	22	47	-3	T	- .5	T	1.7	71	1.9	68	79	22	0	3	0	0
	OMAHA	62	41	71	31	52	-1	.1	- .6	.1	4.0	105	6.0	122	70	34	0	2	1	0
	SCOTTSBLUFF	62	27	77	15	45	-4	T	- .5	T	.9	43	1.4	54	58	14	0	5	0	0
	VALENTINE	62	34	81	23	48	0	T	-.5	T	1.6	94	2.2	85	72	21	0	3	1	0
NV	ELY	57	19	68	9	38	-5	0	- .2	0	3.0	157	4.2	165	70	17	0	7	0	0
	LAS VEGAS	75	52	84	46	63	-2	0	- .1	0	.3	38	1.5	100	31	10	0	0	0	0
	RENO	64	28	74	25	46	-2	0	- .1	0	1.5	125	3.1	100	63	14	0	7	0	0
	WINNEMUCCA	64	26	76	22	45	-2	0	- .2	0	1.5	125	2.0	69	51	11	0	6	0	0
NH	CONCORD	63	31	73	22	47	1	.1	- .6	.1	4.0	78	11.0	117	75	28	0	3	2	0
NJ	ATLANTIC CITY	65	41	75	31	53	-1	.3	- .5	.3	5.0	68	11.4	87	79	34	0	1	1	0
NM	ALBUQUERQUE	64	37	77	33	50	-7	.1	- .1	.1	.9	82	1.5	94	62	21	0	0	1	0
	CLOVIS	61	41	79	36	51	-7	T	- .2	T	0	0	.7	--	58	27	0	0	0	0
	ROSWELL	64	40	82	33	52	-9	T	- .2	T	.2	14	1.0	48	63	28	0	0	0	0
NY	ALBANY	64	36	76	29	50	1	.1	- .5	.1	5.2	111	10.6	133	69	29	0	3	2	0
	BINGHAMTON	60	35	70	29	47	0	.2	- .6	.2	4.9	91	10.7	118	66	25	0	3	1	0
	BUFFALO	52	35	66	28	44	-3	.3	- .5	.3	4.9	86	13.1	130	83	43	0	1	2	0
	NEW YORK	66	46	75	39	56	3	T	- .8	T	4.8	68	11.8	100	67	26	0	0	1	0
	ROCHESTER	59	37	70	30	48	0	.3	- .4	.3	3.3	69	8.5	96	81	37	0	2	1	0
	SYRACUSE	61	37	74	32	49	0	.2	- .5	.2	4.7	82	9.1	88	83	35	0	2	2	0
NC	ASHEVILLE	68	42	76	29	55	-3	.1	- .7	.1	3.2	42	15.7	116	84	31	0	1	2	0
	CHARLOTTE	65	47	73	38	56	-6	.2	- .6	.2	3.6	48	12.8	94	87	43	0	0	1	0
	GREENSBORO	64	43	71	37	54	-7	.4	- .3	.4	4.2	67	11.7	98	73	32	0	0	1	0
	HATTERAS	67	46	75	37	56	-4	.6	- .1	.5	7.6	119	20.5	150	94	47	0	0	2	1
	NEW BERN	72	49	76	43	61	-2	.5	- .3	.3	4.5	65	15.9	118	86	34	0	0	3	0
	RALEIGH	68	44	75	35	56	-5	.4	- .3	.4	5.4	90	13.7	117	79	29	0	0	1	0
	WILMINGTON	69	47	77	37	58	-7	1.1	.4	.7	3.7	55	15.9	130	92	40	0	0	2	1
ND	BISMARCK	64	32	83	26	48	1	.2	- .2	.2	1.5	83	2.8	117	71	22	0	4	1	0
	FARGO	65	35	83	25	50	4	0	- .6	0	1.6	64	3.4	117	73	25	0	3	0	0
	GRAND FORKS	64	35	84	29	50	5	0	- .4	0	1.1	55	3.0	120	90	34	0	2	0	0
	WILLISTON	64	31	84	25	48	2	.7	.4	.4	2.4	141	4.1	152	93	33	0	5	2	0
OH	AKRON-CANTON	60	37	72	32	49	-2	.1	- .7	.1	5.0	85	11.5	120	67	29	0	1	1	0
	CINCINNATI	65	36	72	29	51	-5	T	- .8	T	6.9	95	15.3	121	65	23	0	1	1	0
	CLEVELAND	60	37	73	31	49	-2	.1	- .7	.1	5.3	88	10.7	109	70	30	0	2	1	0
	COLUMBUS	62	36	73	30	49	-4	T	- .9	T	5.9	89	12.1	114	79	28	0	2	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending April 24, 1982

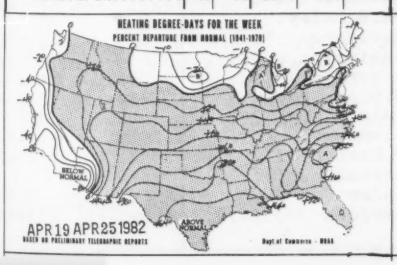
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	DAYTON	63	36	73	32	50	-4	.1	- .7	.1	7.6	125	15.2	148	71	30	0	2	1	0
	TOLEDO	62	37	71	30	49	-2	T	- .7	T	5.4	113	9.8	127	75	29	0	2	1	0
	YOUNGSTOWN	60	37	72	32	48	-2	T	- .8	T	4.0	66	9.9	95	69	29	0	2	1	0
OK	OKLAHOMA CITY	67	43	75	34	55	-7	T	- .9	T	1.7	37	6.4	103	66	31	0	0	1	0
	TULSA	69	44	74	35	57	-6	T	- 1.0	T	1.2	21	5.5	70	71	27	0	0	1	0
OR	ASTORIA	62	41	77	31	51	3	.2	- .8	.2	13.8	127	38.2	145	81	40	0	1	1	0
	BURNS	61	27	70	20	44	-2	0	- .2	0	1.5	94	4.3	100	--	--	0	4	0	0
	MEDFORD	72	36	80	30	54	3	0	- .2	0	2.9	112	8.1	104	76	24	0	1	0	0
	PENDLETON	64	38	78	29	51	-1	0	- .3	0	2.0	105	4.3	105	61	26	0	2	0	0
	PORTLAND	65	40	79	31	53	1	T	- .5	T	6.1	107	18.3	127	79	33	0	1	1	0
	SALEM	67	32	80	26	49	-1	T	- .5	T	6.7	102	18.6	109	82	31	0	4	1	0
PA	ALLENTOWN	61	38	73	33	50	-2	0	- .9	0	4.8	72	11.4	100	69	32	0	0	0	0
	ERIE	57	37	70	31	47	0	.3	- .5	.3	5.0	93	10.3	114	64	37	0	2	1	0
	HARRISBURG	65	42	71	34	54	-1	T	- .8	T	5.3	88	10.8	108	71	25	0	0	0	0
	PHILADELPHIA	67	42	74	33	54	-1	T	- .8	T	5.9	92	13.5	129	64	27	0	0	1	0
	PITTSBURGH	62	38	73	29	50	-3	T	- .8	T	4.1	65	10.8	105	53	24	0	2	0	0
	SCRANTON	60	40	73	30	50	-1	0	- .8	0	4.8	98	10.1	128	58	30	0	1	0	0
RI	PROVIDENCE	64	41	77	33	53	3	.2	- .6	.2	5.5	79	15.0	119	67	28	0	0	1	0
SC	CHARLESTON	72	49	81	35	60	-6	.3	- .3	.3	3.6	51	9.1	76	96	49	0	0	2	0
	COLUMBIA	71	44	77	32	58	-8	.7	- .1	.7	5.1	55	13.2	96	98	39	0	1	2	1
	FLORENCE	69	48	73	35	58	-7	.2	- .6	.2	3.1	44	12.3	102	90	39	0	0	1	0
	GREENVILLE	66	44	71	32	55	-7	.1	- .9	.1	5.2	55	16.6	101	81	36	0	1	1	0
SD	ABERDEEN	62	36	80	28	49	2	--	--	--	--	--	--	--	81	32	0	2	-	-
	HURON	63	36	80	29	49	1	.4	- .1	.4	2.7	104	4.3	130	93	44	0	3	2	0
	RAPID CITY	63	31	78	27	47	0	.1	- .5	.1	2.0	71	2.8	85	70	19	0	4	1	0
	SIOUX FALLS	61	35	75	25	48	0	.3	- .3	.2	2.9	91	3.7	86	80	35	0	3	2	0
TN	CHATTANOOGA	66	45	72	34	55	-7	.3	- .7	.3	7.8	82	22.0	118	81	37	0	0	2	0
	KNOXVILLE	67	43	73	32	55	-7	.1	- .7	.1	7.9	96	18.9	117	85	36	0	1	1	0
	MEMPHIS	67	50	71	44	58	-6	1.0	- .2	.9	10.4	107	22.5	128	77	37	0	0	3	1
	NASHVILLE	66	43	73	32	54	-8	.1	- .8	T	6.4	77	17.7	110	83	37	0	1	2	0
TX	ABILENE	63	49	80	41	56	-11	.4	- .3	.2	.8	28	3.0	68	87	37	0	0	4	0
	AMARILLO	64	35	79	24	49	-9	T	- .3	T	.4	27	1.1	50	77	21	0	3	0	0
	AUSTIN	67	55	89	49	61	-9	4.4	3.5	2.2	6.1	130	7.8	91	94	51	0	0	7	4
	BEAUMONT	72	60	83	53	66	-5	2.4	1.4	1.6	8.7	134	14.3	105	88	65	0	0	3	1
	BROWNSVILLE	77	64	94	52	71	-5	.6	.2	.4	.8	53	1.6	40	90	66	3	0	3	0
	CORPUS CHRISTI	73	60	89	51	67	-8	.5	0	.4	1.1	41	9.3	160	99	75	0	0	4	0
	DEL RIO	69	56	93	47	63	-11	.3	- .2	.1	.6	29	3.2	91	83	60	1	0	3	0
	EL PASO	69	42	82	40	56	-10	T	0	T	0	0	.9	69	60	24	0	0	1	0
	FORT WORTH	68	53	87	49	60	-7	.5	- .6	.3	3.8	63	8.0	89	89	42	0	0	3	0
	GALVESTON	71	61	79	53	66	-4	1.4	.8	.7	3.3	67	8.7	93	96	67	0	0	3	2
	HOUSTON	71	57	87	50	64	-7	1.8	.9	.7	4.0	73	7.4	64	93	68	0	0	5	2
	LUBBOCK	63	44	81	39	54	-8	.1	- .2	.1	.6	33	1.0	38	75	30	0	0	1	0
	MIDLAND	66	47	85	38	56	-10	.8	.6	.6	.8	80	1.4	74	84	33	0	0	2	1
	SAN ANGELO	65	49	91	41	57	-12	.8	.4	.6	1.2	57	3.8	106	93	40	1	0	3	1
	SAN ANTONIO	67	54	87	45	61	-10	1.0	.4	.8	1.7	49	3.7	57	98	56	0	0	5	1
	VICTORIA	71	59	85	50	65	-7	1.4	.7	.7	1.6	41	7.4	101	91	69	0	0	4	2
	WACO	68	54	82	49	61	-8	1.6	.6	.6	5.8	104	9.1	103	94	55	0	0	5	1
	WICHITA FALLS	65	47	80	40	56	-10	.1	- .7	.1	2.7	58	5.3	100	83	34	0	0	2	0
UT	BLANDING	56	31	65	21	43	-6	.1	- .1	.1	1.7	106	3.2	97	77	45	0	4	2	0
	CEDAR CITY	61	30	70	20	46	-3	0	- .2	0	2.3	121	5.9	190	54	17	0	4	0	0
	SALT LAKE CITY	57	30	70	22	44	-7	0	- .5	0	3.6	113	5.2	100	64	22	0	4	0	0
VT	BURLINGTON	60	34	72	24	47	2	.4	- .2	.3	4.3	108	8.6	126	88	39	0	3	2	0
VA	NORFOLK	67	47	72	43	57	-3	T	- .6	T	3.8	69	12.9	115	74	30	0	0	1	0
	RICHMOND	69	45	77	37	57	-3	T	- .6	T	5.1	89	12.2	114	77	29	0	0	1	0
	ROANOKE	63	38	70	32	51	-7	T	- .6	T	3.1	54	11.5	108	72	26	0	2	0	0
WA	COLVILLE	64	30	74	24	47	-1	0	- .2	0	3.0	158	7.1	139	70	34	0	4	0	0
	QUILLAYUTE	62	34	75	29	48	1	.2	- 1.6	.2	19.2	105	58.7	142	90	32	0	4	1	0
	SEATTLE-TACOMA	63	41	77	34	52	2	T	- .5	T	5.8	98	18.5	124	68	28	0	0	0	0
	SPOKANE	60	32	73	25	46	-2	0	- .3	0	3.5	146	6.8	111	70	22	0	4	0	0
	YAKIMA	65	29	77	24	47	-4	T	- .1	T	.9	100	2.7	93	74	20	0	5	0	0
WV	BECKLEY	60	37	68	25	49	-5	.2	- .5	.1	3.9	55	10.4	80	68	26	0	1	2	0
	CHARLESTON	67	39	77	29	53	-5	.1	- .7	.1	5.8	85	12.9	105	75	23	0	2	1	0
	HUNTINGTON	65	38	74	28	52	-6	.1	- .7	.1	5.8	85	12.5	105	72	26	0	2	1	0
	PARKERSBURG	62	37	73	27	50	-6	.6	- .2	.6	7.4	110	9.7	76	51	23	0	2	1	1
WI	GREEN BAY	56	31	73	27	44	-3	.9	.3	.9	4.9	140	6.5	127	85	40	0	5	2	1
	LA CROSSE	61	36	75	28	49	-1	.1	- .6	.1	2.6	62	4.1	76	85	32	0	3	2	0
	MADISON	61	33	74	25	47	-1	.2	- .5	.2	5.2	130	6.7	122	84	35	0	4	1	0
	MILWAUKEE	61	34	73	27	48	1	.1	- .6	.1	7.3	166	10.8	166	72	30	0	3	2	0
	WAUSAU	58	30	72	23	44	-1	.5	- .1	.3	5.8	161	7.7	143	83	31	0	5	2	0
WY	CASPER	56	25	72	18	41	-4	.2	- .2	.1	1.5	71	2.4	89	71	21	0	6	2	0
	CHEYENNE	55	24	70	14	39	-6	.2	- .2	.1	.3	14	1.0	36	66	21	0	6	2	0
	LANDER	56	26	71	18	41	-4	T	- .6	T	1.2	40	1.8	49	47	14	0	5	0	0
	SHERIDAN	61	29	79	22	45	-1	T	- .5	T	1.6	59	2.7	73	59	21	0	5	0	0
PR	SAN JUAN	87	74	88	73	81	3	T	- .9	T	2.5	56	11.1	113	82	56	0	0	0	0

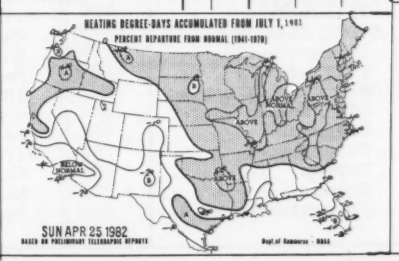
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

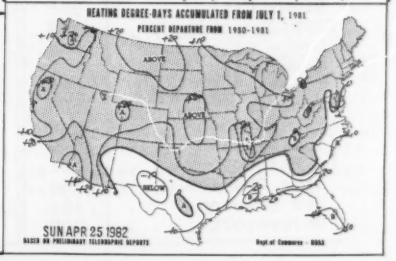
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING APR. 25, 1982.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1980-81
ALA.					
BIRMINGHAM	52	36	2792	- 24	- 143
MOBILE	11	8	1584	- 100	- 227
MONTGOMERY	20	11	2131	- 125	- 320
ARIZ.					
FLAGSTAFF	178	30	5910	- 634	- 734
PHOENIX	0	- 8	857	- 690	- 221
TUCSON	16	- 4	1457	- 290	- 175
WINSLOW	87	19	4069	- 486	- 39
YUMA	0	- 3	618	- 387	236
ARK.					
FORT SMITH	78	61	3621	310	397
LITTLE ROCK	61	42	3320	- 3	246
CALIF.					
BAKERSFIELD	0	- 26	1756	- 393	- 21
EUREKA	59	- 46	3730	- 196	225
FRESNO	4	- 30	2623	- 53	380
LOS ANGELES	8	- 34	1151	- 456	239
RED BLUFF	17	- 26	2636	- 45	583
SAN DIEGO	0	- 28	756	- 600	172
SAN FRANCISCO	39	- 24	2707	- 38	250
STOCKTON	24	- 17	2619	- 81	271
COLO.					
DENVER	149	44	5040	- 577	543
GRAND JUNCTION	111	33	5209	- 198	876
PUEBLO	113	36	4527	- 646	323
CONN.					
BRIDGEPORT	103	3	5621	471	169
HARTFORD	89	- 14	6098	61	42
DEL.					
WILMINGTON	58	- 14	5027	257	50
D.C.					
WASHINGTON	45	- 1	4215	102	528
FLA.					
APALACHICOLA	5	4	1171	- 190	- 492
DAYTONA BEACH	0	0	792	- 105	- 411
FORT MYERS	0	0	225	- 232	- 280
JACKSONVILLE	1	1	1188	- 139	- 417
KEY WEST	0	0	50	- 12	- 123
LAKELAND	0	0	578	- 100	- 370
MIAMI	0	0	151	- 55	- 120
ORLANDO	0	0	559	- 174	- 311
TALLAHASSEE	1	- 2	1581	- 18	- 318
TAMPA	0	0	596	- 122	- 382
WEST PALM BEACH	0	0	253	- 46	- 112
GA.					
ATLANTA	50	28	3084	26	169
AUGUSTA	56	45	3036	504	219
MACON	27	20	2235	6	60
SAVANNAH	15	8	1793	- 156	- 338
IDAHO.					
BOISE	123	24	5639	217	586
LEWISTON	96	6	4948	- 143	531
POCATELLO	156	34	6574	63	447
ILL.					
CAIRO	51	26	4323	542	631
CHICAGO	107	11	6748	592	748
MOLINE	107	25	6882	740	945
PEORIA	104	26	6165	312	465
ROCKFORD	112	14	7042	520	741
SPRINGFIELD	98	32	5962	587	898
IND.					
EVANSVILLE	85	39	4701	199	259
FORT WAYNE	103	12	6661	748	692
INDIANAPOLIS	90	16	5834	471	431
SOUTH BEND	96	- 4	6627	506	1108
IOWA.					
BURLINGTON	103	25	6641	726	923
DES MOINES	94	7	6634	187	1094
DUBUQUE	99	- 2	7468	550	1132
SIOUX CITY	95	7	7147	469	1239
KANS.					
CONCORDIA	110	40	5597	190	1040
DODGE CITY	100	38	4821	- 53	727
GOODLAND	130	35	5483	307	998
TOPEKA	103	45	5339	261	738
WICHITA	95	48	4937	374	989
KY.					
LEXINGTON	97	42	4845	262	139
LOUISVILLE	87	35	4699	194	475
LA.					
BATON ROUGE	11	10	1513	- 157	- 433
LAKE CHARLES	27	27	1571	- 73	- 248
NEW ORLEANS	5	5	1251	- 214	- 256
SHREVEPORT	40	33	2395	235	98
MAINE.					
CARIBOU	170	- 8	8834	- 40	113
PORTLAND	123	- 17	7049	129	162
MD.					
BALTIMORE	76	12	4981	400	316
MASS.					
BOSTON	75	- 24	5656	342	69
MICH.					
ALPENA	120	- 34	7979	167	464
DETROIT	101	- 2	6876	794	477
FLINT	102	- 14	7208	611	515
GRAND RAPIDS	120	9	6862	444	410
HOUGHTON LAKE	139	1	7991	243	412
LANSING	107	- 4	7201	692	536
MARQUETTE	171	- 4	9151	340	571
MUSKEGON	131	12	7068	635	514
S. STE. MARIE	176	8	9260	872	393
MINN.					
DULUTH	138	- 26	9504	- 533	737
INTERNATL FALLS	134	- 30	9378	- 66	623
MINNEAPOLIS	106	- 10	8026	275	1091
ROCHESTER	126	- 6	8281	499	1169
ST. CLOUD	109	- 22	8538	161	977
MISS.					
JACKSON	29	22	2223	- 66	- 370
MERIDIAN	29	20	2088	- 288	- 305
MO.					
COLUMBIA	97	41	5235	318	434
KANSAS CITY	93	32	5551	372	804
ST. LOUIS	77	30	5145	536	862
SPRINGFIELD	99	51	4571	129	471
MONT.					
BILLINGS	118	- 6	6796	73	1486
GLASGOW	119	- 11	8681	288	1989
GREAT FALLS	142	11	7733	693	1582
HAVRE	130	5	8540	396	1831
HELENA	145	8	7207	- 300	734
KALISPELL	163	21	7763	- 12	1133
MILES CITY	114	17	7651	238	1705
MISSOULA	142	11	7178	- 69	895
NEBR.					
GRAND ISLAND	106	19	6603	459	1356
LINCOLN	101	24	6300	317	1085
NORFOLK	95	1	6918	240	1271
NORTH PLATTE	123	22	6398	20	865
OMAHA	111	41	6667	823	876
VALENTINE	118	6	6980	96	1071
NEV.					
ELY	182	30	6464	- 540	301
LAS VEGAS	17	- 3	2166	- 415	393
RENO	121	- 5	5180	- 295	337
WINNEMUCCA	129	3	5527	- 512	207
N.H.					
CONCORD	117	11	7517	611	296
N.J.					
ATLANTIC CITY	66	11	5006	245	603
TRENTON	73	1	5255	486	324
N. MEX.					
ALBUQUERQUE	102	51	3058	- 248	15
ROSWELL	90	60	2943	- 720	- 329
N.Y.					
ALBANY	89	19	7184	649	367
BINGHAMTON	103	20	7105	293	99
BUFFALO	126	3	6830	363	508
NEW YORK	54	23	5013	295	- 4
ROCHESTER	93	20	6873	556	429
SYRACUSE	88	23	6752	465	325
N.C.					
ASHEVILLE	77	25	4217	124	119
CHARLOTTE	61	39	3468	294	14
GREENSBORO	75	42	4073	326	141
HATTERAS	60	29	2941	274	234
RALEIGH	56	26	3583	132	156
WILMINGTON	39	26	2546	125	499
N. DAK.					
BISMARCK	115	14	8751	249	1594
FARGO	112	23	9228	471	1263
WILLISTON	126	7	8693	95	1656
OHIO.					
AKRON-CANTON	101	3	6071	174	139
CINCINNATI	98	34	5496	611	208
CLEVELAND	101	2	6264	450	175
COLUMBUS	106	24	5964	500	604
DAYTON	97	18	5902	488	322
TOLEDO	105	7	6989	935	543
YOUNGSTOWN	106	3	6526	463	92
OKLA.					
OKLAHOMA CITY	69	42	3707	63	455
TULSA	59	34	3627	- 12	452
OREG.					
ASTORIA	93	21	4160	409	424
BURNS	146	14	7161	643	647
MEDFORD	68	26	4369	157	292
PENDLETON	89	2	4839	56	195
PORTLAND	76	17	3877	464	269
SALEM	102	4	4475	115	377
PA.					
ALLENTOWN	93	4	5987	424	563
ERIE	105	19	6300	- 55	- 59
HARRISBURG	77	7	5495	440	- 64
PHILADELPHIA	68	2	5172	470	163
PITTSBURGH	90	13	6211	561	226
SCRANTON	90	8	6304	328	236
R.I.					
PROVIDENCE	72	37	5897	288	146
S.C.					
CHARLESTON	36	29	2282	146	- 120
COLUMBIA	51	42	2792	211	214
GREENVILLE	66	44	3493	369	85
S. DAK.					
ABERDEEN	93	29	8116	30	1179
HURON	99	13	7499	143	929
RAPID CITY	137	15	6925	130	1252
SIOUX FALLS	112	2	7521	74	1001
TENN.					
CHATTANOOGA	71	45	3619	180	71
KNOXVILLE	72	44	3698	282	166
MEMPHIS	36	22	3301	105	611
NASHVILLE	75	48	3843	207	185
TEXAS.					
ABILENE	61	46	2410	- 183	- 17
AMARILLO	106	56	4003	- 61	234
AUSTIN	40	36	1511	226	166
BEAUMONT	16	16	1470	- 39	84
BROWNSVILLE	1	1	560	- 92	117
CORPUS CHRISTI	24	24	925	- 5	181
DEL RIO	40	40	1395	128	73
EL PASO	60	49	2355	318	147
FORT WORTH	38	28	2431	54	115
GALVESTON	16	16	1231	- 7	163
HOUSTON	30	30	1432	- 2	70
LUBBOCK	83	52	3125	376	44
MIDLAND	70	58	2387	225	515
SAN ANGELO	62	43	2238	- 7	3
SAN ANTONIO	43	43	1625	55	51
VICTORIA	28	28	1261	34	88
WACO	34	29	2100	- 42	22
WICHITA FALLS	56	41	3062	176	420
UTAH					
SALT LAKE CITY	135	39	5139	- 461	310
VT.					
BURLINGTON	109	- 25	7577	180	100
VA.					
LYNCHBURG	73	27	4546	425	253
NORFOLK	57	18	3676	262	- 22
RICHMOND	52	13	4011	157	- 96
ROANOKE	100	48	4811	636	464
WASH.					
QUILLAYUTE	114	13	5128	- 10	646
SEATTLE-TACOMA	85	- 20	4407	229	442
SPOKANE	122	9	6096	292	309
WALLA WALLA	77	2	4294	270	153
YAKIMA	139	43	5647	30	971
W. VA.					
BECKLEY	104	24	5530	232	33
CHARLESTON	79	26	4795	406	- 2
HUNTINGTON	89	36	4893	425	238
PARKERSBURG	90	31	5066	412	54
WIS.					
GREEN BAY	131	3	7989	401	696
LACROSSE	99	0	7531	443	884
MADISON	118	1	7683	395	894
MILWAUKEE	111	13	7524	598	823
WYO.					
CASPER	160	22	6694	238	736
CHEYENNE	174	36	6277	340	709
LANDER	150	13	6746	510	613
SHERIDAN	130	- 1	6786	296	748


HEATING DEGREE-DAYS FOR THE WEEK
PERCENT DEPARTURE FROM NORMAL (1941-1970)
BELOW NORMAL
ABOVE NORMAL
APR 19 APR 25 1982
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept of Commerce - NOAA


HEATING DEGREE-DAYS ACCUMULATED FROM JULY 1, 1981
PERCENT DEPARTURE FROM NORMAL (1941-1970)
BELOW NORMAL
ABOVE
SUN APR 25 1982
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept of Commerce - NOAA



Heating Degree Days (Base 65° F.)

March 1982

ALA.Birmingham	263	MAINE,Caribou	1251	OKLA.Okla. City	382
Mobile	161	Portland	1014	Tulsa	322
Montgomery	180	MD.Baltimore	677	OREG.Astoria	610
ALASKA,Anchorage	1191	MASS.Boston	811	Burns	914
Barrow	2403	Chatham	850	Medford	628
Fairbanks	1602	MICH.Alpena	1219	Pendleton	662
Juneau	--	Detroit	985	Portland	502
Nome	1705	Flint	996	Salem	629
ARIZ.Flagstaff	911	Grand Rapids	998	PA.Allentown	851
Phoenix	99	Houghton Lake	1210	Erie	942
Tucson	223	Lansing	1044	Harrisburg	812
Winslow	561	Marquette	1292	Philadelphia	714
Yuma	63	S. Ste. Marie	1337	Pittsburgh	819
ARK.Fort Smith	353	MINN.Duluth	1363	Scranton	896
Little Rock	324	Internatl Falls	1431	R.I.Providence	802
CALIF.Bakersfield	213	Minneapolis	1111	S.C.Charleston	214
Eureka	512	Rochester	1121	Columbia	283
Fresno	412	St. Cloud	1251	Greenville	365
Los Angeles	225	MISS.Jackson	197	S.DAK.Aberdeen	--
Red Bluff	450	Meridian	198	Huron	976
Stockton	406			Rapid City	985
San Diego	139	MO.Columbia	607	Sioux Falls	991
San Francisco	416	Kansas City	690	TENN.Chattanooga	371
COLO.Denver	733	St. Louis	603	Knoxville	384
Grand Junction	581	Springfield	474	Memphis	324
Pueblo	581	MONT.Billings	987	Nashville	416
CONN.Bridgeport	831	Glasgow	1246	TEX.Abilene	253
Hartford	871	Great Falls	1142	Amarillo	539
D.C.Washington	592	Havre	1163	Austin	147
FLA.Apalachicola	152	Helena	959	Beaumont	124
Ft. Myers	11	Kalispell	900	Brownsville	54
Jacksonville	99	Miles City	--	Corpus Christi	92
Key West	0	Missoula	824	Dallas	--
Lakeland	--	NEBR.Grand Island	925	Del Rio	125
Miami	3	Lincoln	880	El Paso	237
Orlando	33	Norfolk	958	Fort Worth	232
W.Palm Beach	4	North Platte	885	Galveston	109
Tallahassee	155	Omaha	894	Houston	143
Tampa	53	Valentine	936	Lubbock	351
GA.Atlanta	282	NEV.Ely	970	Midland	245
Augusta	286	Las Vegas	301	San Angelo	220
Macon	191	Reno	760	San Antonio	171
Savannah	149	Winnemucca	812	Victoria	126
IDAHO,Boise	729	N.H.Concord	1072	Waco	202
Lewiston	636	N.J.Atlantic City	670	Wichita Falls	331
Pocatello	838	Trenton	--	UTAH,Milford	795
ILL.Cairo	405	N.MEX.Albuquerque	538	Salt Lake City	668
Chicago	922	Roswell	357	VT.Burlington	1069
Moline	936	N.Y.Albany	992	VA.Lynchburg	597
Peoria	839	Binghamton	1006	Norfolk	495
Rockford	990	Buffalo	1002	Richmond	486
Springfield	760	New York	737	Roanoke	618
IND.Evansville	534	Rochester	972	WASH.Colville	--
Fort Wayne	908	Syracuse	978	Omak	--
Indianapolis	690	N.C.Asheville	458	Quillayute	722
South Bend	922	Charlotte	376	Seattle-Tacoma	639
IOWA,Burlington	--	Greensboro	484	Spokane	761
Des Moines	911	Hatteras	392	Walla Walla	569
Dubuque	--	Raleigh	411	Yakima	675
Sioux City	955	Wilmington	290	W.VA.Beckley	636
KANS.Concordia	743	N.DAK.Bismarck	1279	Charleston	545
Dodge City	632	Fargo	1298	Huntington	588
Goodland	761	Williston	1191	Parkersburg	631
Topeka	664	OHIO.Akron-Canton	844	WIS.Green Bay	1127
Wichita	583	Cincinnati	635	Madison	1059
KY.Lexington	549	Cleveland	860	Milwaukee	1032
Louisville	549	Columbus	758	WYO.Casper	873
LA.Baton Rouge	181	Dayton	766	Cheyenne	892
Lake Charles	156	Toledo	972	Lander	898
New Orleans	127	Youngstown	920	Sheridan	932
Shreveport	202				

National Agricultural Summary

April 19-25, 1982

HIGHLIGHTS: Cool weather slowed growth and development of crops and pastures throughout most of the Nation. Heavy rain halted fieldwork in the Delta. Dry weather continued to plague the Central Plains, and crops were showing signs of stress. Soil moisture supplies were adequate to surplus in the eastern half of the Nation and mostly short to adequate from the Great Plains westward. Farmers in the Delta had less than 2 days suitable for fieldwork, while in other areas across the South, 3 to 5 days were available. In the Corn Belt, farmers were able to spend 3 to 6 days in the fields. Winter wheat continued in mostly good condition, although more rain in the Central Plains is needed. Corn planting was 6% finished in the 17 major States, 2 points behind normal. Cotton was 18% planted in the 14 major producing States, 14 points behind last year. Spring wheat seeding reached 5% complete, well behind last year's rapid pace of 60%. Rice was 32% planted, lagging last year's 54%. Peanut planting became more active across the South. Vegetable planting moved northward. Pastures and livestock were in fair to mostly good condition.

SMALL GRAINS: Winter wheat continued in mostly good condition. Moisture is needed on the Central Plains to sustain growth and development. The crop continued greening in the northernmost growing areas.

Kansas winter wheat was in good to excellent condition except in parts of the west central, southwestern, east central, and southeastern areas where the crop rated only fair to poor. Sixty percent of the acreage was jointing, 15 points ahead of average. Spring seeding of oats and barley neared completion.

Oklahoma winter wheat showed signs of stress due to dryness. Ninety percent of the acreage was jointing, and 10% was heading.

Texas winter wheat rated fair to good condition. Dryland fields on the northern High Plains showed signs of stress from lack of moisture. Some fields were abandoned or will be grazed out. Irrigated wheat showed good condition as fields began heading. Rust and powdery mildew continued to pose problems for growers in central areas of the State.

Spring wheat seeding in the five major producing States was 5% finished, well behind last year's rapid pace of 60% and the average of 33%. Seeding had not yet started in Minnesota and was just getting underway in Montana and North Dakota.

CORN: Corn planting in the 17 major producing States was 6% completed, 2 points behind average. Planting was just getting started in Colorado, Illinois, Indiana, Nebraska, and Ohio. Most activity centered in the Southeast. Planting was 92% finished in Georgia and 73% completed in North Carolina. In the South, emerging plants showed fair to good condition.

COTTON: Cotton planting reached 18% complete in the 14 major producing States, 14 points behind last year. Planting was underway in all States except Oklahoma. California growers were 50% finished; 40% of the acreage was seeded during the week. In Arizona, 70% of the acreage had been planted.

OTHER CROPS: Rice seeding was 32% finished, lagging last year's progress of 54%. Of the five major States, only California has yet to begin planting. In Texas, 84% of the acreage had been seeded, 3 points behind average.

Soybean planting was just getting started in Georgia. Growers had seeded 2% of the acreage.

Peanut planting gained momentum across the South. Growers were 14% finished in Alabama, 18% in Georgia, 24% in South Carolina, and 6% in Texas.

Tobacco bed seeding neared completion, and transplanting became more active. Georgia growers finished transplanting tobacco, South Carolina farmers were 80% finished, and North Carolina growers managed 18%.

Sorghum planting in Texas was 64% finished, 3 points ahead of average. Cool weather slowed planting in Panhandle areas and slowed crop development further south.

FRUITS AND NUTS: Peaches were past full bloom as far north as New Jersey. In southern areas, trees were leafing out. Strawberries were blooming in New Jersey.

In the Pacific Northwest, cherries, plums, and pears were blooming. Frost protection was needed at night. Bee pollination has been slowed by cold weather.

Florida's citrus groves continued in very good condition. New-crop fruit made good progress, and an abundance of new growth appeared on all trees.

Arizona's citrus groves were in excellent condition, showing a heavy bloom. Valencia orange and grapefruit picking moved slowly.

The Texas grapefruit harvest neared completion.

California grapes developed rapidly. Hail-damaged vines in Fresno County recovered better than expected. Deciduous trees were being thinned. The citrus harvest continued active, and almond trees showed good development.

VEGETABLES: Planting became more active in northern areas. Warmer weather is needed for good growth.

Florida's vegetable shipments increased 24% from the previous week. Harvest of lettuce, potatoes, radishes, peas, tomatoes, and watermelons gained momentum.

Arizona's lettuce harvest was past peak and winding down. Harvesting of cabbage, greens, and carrots was in progress. Onions for seed production progressed past full bloom.

Cool weather slowed Texas vegetable growth. Showers interrupted harvesting in some areas, but were needed to restore soil moisture and reduce the need for irrigation.

Drier weather enabled California growers to increase vegetable harvests. Lettuce harvest moved very actively in the San Joaquin Valley and increased in the Santa Maria area. Celery harvest was active, mainly in Ventura County. Growers planted processing tomatoes in the Sacramento Valley as fields dried. Dry-onion grading began in Desert areas.

PASTURES AND LIVESTOCK: Pastures were in fair to mostly good condition. Cooler weather slowed growth. However, ample soil moisture in most areas should boost growth when temperatures warm. Showers helped restore soil moisture in Texas, but more rain is needed to sustain growth. Supplemental feeding continued active in parts of Texas. Calving and lambing were well advanced in northern areas. Ranches turned herds onto summer rangelands in many areas.

CROP PROGRESS
FOR WEEK ENDING APR 25, 1982

CORN % PLANTED	1982	1981	AVG.
COLO	2	4	6
GA	92	94	86
ILL	2	5	7
IND	1	5	0
IOWA	0	4	5
KANS	15	20	10
KY	10	26	19
MICH	0	2	2
MINN	0	1	2
MO	20	22	22
NEBR	1	4	2
N C	73	82	72
OHIO	6	3	8
PA	0	0	0
S DAK	0	0	0
VA	39	42	33
WIS	0	1	1
17 STATES	6	9	8

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

COTTON % PLANTED	1982	1981	AVG.
ALA	11	48	43
ARIZ	70	74	70
ARK	5	17	11
CALIF	50	85	NA
GA	27	52	48
LA	5	46	22
MISS	2	50	22
MO	2	5	11
N MEX	14	10	12
N C	9	34	28
OKLA	0	0	0
S C	18	70	58
TENN	3	17	17
TEX	15	18	18
14 STATES	18	32	NA
EXCL. STATES WITH NA	14	26	21

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.

SPRING WHEAT % PLANTED	1982	1981	AVG.
IDAHO	40	70	54
MINN	0	79	41
MONT	2	42	33
N D	2	45	20
S DAK	16	96	52
5 STATES	5	60	33

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

RICE % PLANTED	1982	1981	AVG.
ARK	13	44	34
CALIF	0	10	NA
LA	64	74	71
MISS	30	80	51
TEX	84	89	87
5 STATES	32	54	NA
EXCL. STATES WITH NA	39	63	53

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

NA - NOT AVAILABLE

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures well below average. Frost in Cullman and Dekalb counties. Rainfall over 2.00 in. Statewide except extreme northwest.

Soil moisture mostly surplus. Corn planted 68%, 1981 81%, average 60%. Cotton planted 11%, 1981 48%, average 43%. Peanuts planted 14%, 1981 19%, average 22%. Wheat heading 45%, 1981 61%, average 56%. Activities: Planting corn, peanuts and cotton; pest control on fruit, vegetables and some early crops; spreading fertilizer; seedbed preparation. Conditions: Livestock, pastures, fair to good; wheat fair to good; plowing 68%.

ARIZONA: Storm system midweek brought scattered rain, snow over northern half. Amounts moisture very light. Warming trend over weekend. Average temperatures 9° below normal to 1° above.

Cotton planting 70% complete, behind last year's 74%, same as average. Crop development average. Wheat, barley in central, western area turning color, southeastern in head development stage. Alfalfa haying activities normal. Unusually high stem nematode damage, Maricopa County. Sugarbeet harvest began, Yuma County. Sorghum, corn, safflower, good progress. Lettuce harvest past peak, winding down, central area. Yield, prices exceptionally good. Harvest of Romaine, other lettuce continued. Cabbage, greens, carrot harvest in progress. Small quantities broccoli continued to be harvested. Potato harvest should begin this week. Onions for seed production past peak bloom, Yuma area. Limited Valencia orange, grapefruit picking. Citrus bloom heavy, groves in excellent condition. Ranges fair to good. Water supplies adequate, some water shortage in Gila, Graham Counties. Cattle, sheep fair to good condition.

ARKANSAS: Unseasonably cold week. Highest temperature 79°, lowest 27°. All departures from normal -5 to -10°. Most rainfall 2.61 in., least zero.

Rain and wet fields slowed planting. Five days available for fieldwork. Soil moisture adequate. Farm work slightly behind schedule. Crop growth slow due to cool weather. Rice planted 13%, 44% 1981, 30% average. Emergence 5%, 23% 1981. Cotton planted 5%, 17% 1981, 11% average. Corn and sorghum in fair condition. Corn planted 61%, 61% 1981, 50% average. Sorghum planted 32%, 49% 1981, 78% average. Wheat and oats in good condition. Livestock in good condition. Pastures supplied average feed. Hay cutting to begin this week.

CALIFORNIA: Temperatures above normal along the Coast and in the Central Valley, and slightly below normal in the mountains and the southern Deserts. No precipitation reported.

Cotton planting full swing, 50% planted, 85% 1982. Rice straw burning and field preparations active. Expect to start planting this week; 10% to date last year. Small grains showing recovery signs from excessive rain Sacramento Valley. Some corn and large lima planting active. Sugarbeets growing well. Planting and harvesting of beets active. Alfalfa growth good, with hay being cut. Fuerte avocado harvest continues. Condition of Bing cherry crop spotty. Weed removal beginning in fig orchards. Grapes developing rapidly, hail damaged vines in Fresno County recovering better than expected. Sulfur applications underway. Weed control measures active in deciduous orchards and trees being thinned. Pear bloom peaked, Lake County. Citrus harvest continues. Almond trees developing rapidly. Artichoke, brussels sprouts harvest increased under drier conditions. Asparagus harvest increased. Broccoli, cauliflower harvests active coastal districts. Celery harvest active, mostly Ventura County. Lettuce harvest heavy San Joaquin Valley, increasing Santa Maria. Grading dry onions underway Desert. Spring potatoes good condition Kern District. Strawberry volume increasing South Coast, Santa Maria. Staking, stringing pole tomatoes South Coast, San Joaquin Valley. Planting processing tomatoes Sacramento Valley as fields dry. Ranges generally excellent. Warm temperatures promoted rapid growth. Some foothill show maturity. Sheep shearing continues.

COLORADO: Widely scattered light rain and snow showers fell each day but accumulations averaged 0.10 in. or less. Some mountain locations received snow, with as much as 9 in. reported. Temperatures averaged 3 to 6° below normal. Seeding of spring grains continues ahead of normal but being slowed by dry topsoils. Winter wheat and emerged spring grains under stress from winds and blowing topsoil across eastern plains. Barley, 71% seeded; oats, 61% seeded; spring wheat, 56% seeded. Corn planting underway as scattered showers furnished a little seedbed moisture; 2% of the crop in the ground. Sugarbeets being irrigated to promote germination with 85% of the crop planted. Winter wheat in fair condition, but needs moisture soon in most areas; 9% of the acreage being pastures. Subsoil and topsoil moisture supplies rated as short. Five and one-half days suitable for fieldwork. Livestock in good condition with calving and lambing activities about normal.

FLORIDA: Some winds with temperatures averaging near 5° above normal predominated through the 22nd. A few showers fell near east coast into interior Peninsula as afternoon sea breezes converged. Some 1.00 in. rains fell, Panhandle late week as cold front moved through. Little or no rain fell over Peninsula as the front moved to south. Cloudiness, brisk winds gusted to above 30 mph; cooler temperatures spread over the State behind the front. Heavy rains, strong gusty winds, some hail fell along lower east coast early on 24th. Rainfall of 4.00 to 12.00 in. reported. Rains of 1.00 to 3.00 in. were common almost Statewide end of period as the front moved north again. Temperatures remained in the 60's and 70's under overcast skies; brisk, gusty winds continued.

Soil moisture mostly adequate, a few wet spots exist in areas of heavy rainfall. Corn, tobacco, sugarcane good progress. Peanut planting active. Cotton, soybean planting underway. Small grains good condition. Pastures mostly poor to fair; a few areas good to excellent. Cattle fair to good. Citrus grove condition very good. Some areas dry first of week, however, weekend rains fell all areas. Abundance of new growth on all trees. New crop fruit making good progress. Very warm, dry weather prevailed most of week in vegetable areas. A slow moving cold front at late week brought cloudy skies, gusty winds, cooler temperatures, scattered showers. General weekend rains, some locally heavy, as front moved north again. Total shipments increased 24% from previous week. Harvest gained lettuce, potatoes, radishes, southern peas, tomatoes and watermelons. Volume about steady sweet corn, cucumbers, escarole, peppers and squash. Volume declined other vegetables. Watermelon volume increased sharply with Immokalee area at peak production. Light harvest expected west central area week of 26th.

GEORGIA: Rather cool northwest and rather mild southeast. Average temperatures up to 4° below normal northwest and near average central and northeast ranging up to 4° above normal southeast. Above average rainfall west portion with 3.74 in. at Cedartown. Below to normal rainfall east. Wet 24th and 25th with rainfall averaging 1.00 to 3.00 in. Cool morning of 24th, near normal temperatures on 25th.

Soil moisture 65% adequate, 34% surplus. Three days suitable for fieldwork. Cool temperatures and wet soils delaying field activities and slowing growth of some crops. Corn 92% planted, 94% last year, 86% average, condition 59% fair, 38% good. Cotton 27% planted, 52% last year, 48% average. Condition 15% poor, 55% fair, 30% good. Grain sorghum 15% planted, equals average, 19% last year. Peanuts 18% planted, last year 33%, 30% average. Condition 72% fair, 22% good. Soybeans 2% planted, 4% last year, 3% average. Tobacco 100% transplanted, 96% last year, 93% average. Condition 40% fair, 57% good. Watermelons 88% planted, 90% last year, 66% average. Condition 10% poor, 67% fair, 23% good. Wheat condition 9% poor, 47% fair, 41% good. Rust and powdery mildew still a problem. Other small grains 43% fair, 52% good. Fruit crop damage assessment in central region not complete. Peach conditions 28% very poor, 11% poor, 31% fair, 26% good and 4% excellent. Apple conditions 23% very poor, 41% fair and 13% good. Pasture conditions 25% fair, 68% good, 5% excellent. Cattle fair to mostly good, hogs good.

HAWAII: Weather favorable. Less rainfall in most crop areas. Crop development improving. Irrigation resuming some areas with frequency increasing in other sections. Spraying for disease and insect control. Field activities were up and plantings were increasing. Vegetables: Supplies adequate and up for most commodities. Bananas: Light supplies. Papayas: Drier weather and spray programs reducing Phytophthora disease. Supplies remain light. Pineapples: Harvesting light. Sugar: Steady harvesting. Pastures: Generally fair to good.

IDAHO: Record breaking cold temperatures prevailed the first part week with dramatic warming to above normal readings by the end of the week. Extreme temperatures ranged from -7° at Stanley to 81° at Grandview. Precipitation was well below normal for the first time in several weeks. The most recorded was 0.11 in. at both Grangeville and Porthill.

Fieldwork proceeded at a rapid pace in the valleys, but snow cover and wet ground hindered farmers at the higher elevations. Five days were suitable for fieldwork and farmers were quick to take advantage of the time. Spring wheat and barley seedings rose to 40% and 32%, respectively. Spring wheat was 70% seeded last year and barley was 59% seeded. Winter wheat condition was good. Sugarbeets planted reached 53% seeded. Onions planted stood at 86% complete. Ranges and pastures were greening slowly due to cold nights, but livestock were being moved onto them. Hay was in short supply in many areas.

ILLINOIS: Temperatures 1 to 2° below normal in the north; 4 to 9° below normal in the south. Precipitation 0.20 in.

Winter wheat 5% excellent, 57% good, 32% fair, 6% poor. Oats planting 70% complete, 100% 1981, 78% average. Plowing 1982 corn and soybeans ground 78% complete, 100% 1981, 91% average. Corn planting 2%, 5% 1981, 7% average. Alfalfa 2% excellent, 62% good, 34% fair, 2% poor. Pastures 6% excellent, 59% good, 35% fair; supplying 38% roughage requirements livestock, 63% 1981, 52% average. Soil moisture 70% adequate, 30% surplus. Activities: Preparing the soil for planting, planting corn, applying fertilizer, plowing, and seeding oats.

INDIANA: Dry, sunny week. Sunshine 74% of possible, humidity 10% below normal. Temperature 2° below normal. Ranged from 26 to 74°. Soil temperature averaged in high 40's northeast to high 50's southwest. Rainfall 0.10 to 0.30 in.

Fieldwork averaged 3 days. Topsoil and subsoil moisture mostly adequate to surplus. Spring cropland 65% plowed, 1981 90%, average 75%. Corn 1% planted, 1981 5%, average 0%. Oats 35% seeded, 1981 95%, average 60%. Wheat mostly fair to good. Wheat 6 in. high, 1981 12 in., average 7 in. Wheat 15% jointed, 1981 40%, average 15%. Clover 65% seeded, 1981 98%, average 80%. Tobacco beds 85% seeded. Pastures mostly fair to good.

IOWA: Little rain with early-week chill moderating to the upper 60's and low 70's late week.

Topsoil moisture: 33% surplus, 64% adequate, 3% short. Subsoil moisture: 25% surplus, 69% adequate, 6% short. Plowing: 65% complete, last year 95%, normal 76%. Oat acreage planted: 65% com-

plete, last year 100%, normal 78%. Oat acreage emerged: 10%, last year 89%. Corn acreage planted: 0% complete, last year 4%, normal 5%. Fieldwork: 3.1 days suitable. Crop conditions: Pasture and winter wheat fair to good. Livestock in good condition.

KANSAS: Precipitation generally less than 0.10 in., none most of western half. Temperatures averaged 51° northwest to 60° southeast, 6 to 8° below normal central and south, 3 to 5° below normal elsewhere. Frost to hard freezes west and north 21st and 22nd.

Corn 15% planted, 20% last year, 10% average. Wheat 60% jointed, 85% last year, 45% average. Dry conditions affecting west central, southwest, south central. Soil-borne mosaic remains southwest, central, south central, east central. Wheat condition good to excellent other areas. Spring oats, barley planting nearing completion. Some sorghum planted. Range and pasture continues good to excellent except in dry areas. Movement of cattle to grass increasing. Fieldwork: 6 days suitable.

KENTUCKY: Cool, dry with most places receiving less than 0.50 in. Very little rain fell in far west and northeast. Temperatures averaged 5 to 10° below normal with coldest readings middle of week.

Days favorable for fieldwork averaged 3.5. Soil moisture 74% adequate, 23% surplus and 3% short. Corn planting slow, 10% complete, compared 26% last year and 19% average. Poor germination on some early planted corn and replanting may be necessary. Tobacco plants up in 64% of beds about comparable with average, but behind last year's 93%. Cold weather slowed growth and some tobacco plants may be late. Small grains fair, freeze damage evident in several counties. Pastures good, need warming temperatures for maximum growth. Alfalfa 10 in. in height.

LOUISIANA: Temperatures 5 to 10° below normal north, 2 to 4° below normal south. Rainfall averaged 2.01 to 4.32 in.

Soil moisture adequate to surplus. Days suitable: 1.9. Spring plowing 81%, 91% 1981, 68% 1980. Corn planted 89%, 84% 1981, 77% average; emerged 83%, 74% 1981, 62% average; condition fair to good. Rice planted 64%, 74% 1981, 71% average; emerged 55%, 62% 1981, 60% average; condition fair to good. Wheat headed 89%, 90% 1981, 67% average; turning color 12%, 29% 1981; condition fair to good, rust and powdery mildew continue to spread. Sorghum planted 44%, 52% 1981; emerged 28%, 50% 1981; condition fair. Cotton planted 5%, 46% 1981, 22% average; emerged 3%, 33% 1981, 12% average; condition fair, many fields to be replanted due to cool, damp weather. Sweetpotatoes planted 16%, 33% 1981; condition fair. Sugarcane rated fair to good, second stubble stands poor. Strawberry harvest winding down. Peppers good condition. Vegetables rated fair to good. Livestock, pasture rated good.

MARYLAND AND DELAWARE: Temperatures averaged 1° above normal with highs in the upper 60's to low 70's and lows in the 40's.. Precipitation minimal with average of 0.70 in. falling on 17th. The 24th and 25th were sunny and warm with highs in the low to mid 70's and lows in the low to mid 40's.

Warm, sunny weather let farmers work 7 days in soil preparation and planting. Maryland's progress percentages: Acres plowed 75% this year, 75% last. Potatoes 100% planted this year, 95% last. Sweetpotato beds 100% this year, 95% last. Spring oats planted 85% this year, 60% last. Green peas 85% this year, 90% last. Sweet corn, cucumbers, snap beans and watermelons began being planted on lower Eastern Shore. Field corn 5% planted. Peach bloom 80%, 95% last year. Small grain in good to excellent condition. Some early barley and rye heading. Delaware progress percentages: Acreage plowed 80% this year, 90% last. Potatoes planted 100% this year, 95% last. Field corn 10% planted. Small grains in good condition with some early barley headed. Green peas 85% planted this year, 50% last. Sweet corn being planted in lower Delaware. Peach bloom 65% this year, 100% last.

MICHIGAN: Temperatures near normal. Temperatures ranged from 1° below normal to 6° above normal. Precipitation was light. Precipitation amounts ranged from 0.03 to 0.50 in. across the Lower Peninsula. The Upper Peninsula recorded over 1.00 in. in the northeastern section. Monthly accumulations above normal in the Upper Peninsula and below normal throughout the Lower Peninsula.

Farming activities centered around preparing cropland for spring seeding. Some early oats have been planted. Planting of sugarbeets about 40% complete. Southwest fruit trees progressing well with bud burst seen in sweet cherries and peaches. If good weather holds, blooms may be seen on peach and apple trees by weekend.

MINNESOTA: Temperatures averaged near normal. Extremes: 84° at Hallock, 20° at Warroad. Precipitation averaged 0.25 to 0.50 in. below normal except locally near normal north central and central through east central. Precipitation totals less than 0.25 in. except locally 0.25 to 0.80 in. north central and central to east central.

MISSISSIPPI: Temperatures 5° below normal except along the coast. Extremes: 29 and 85°. Heavy rainfall early in week and again late in week. Greatest 24-hour rainfall 4.86 in.

Soil moisture surplus to excessive. Fieldwork: 1.0 days suitable. Wet fields delaying land preparations and planting. Plowing 60% completed. Corn 58% planted, 85% last year, 60% average; condition fair to good. Cotton 2% planted, 50% last year, 22% average. Rice 30% planted, 80% last year, 51% average; 15% to stand, 24% last year. Winter wheat 70% headed, 96% last year; condition fair to good. Pasture, livestock and peach condition all good to fair.

MISSOURI: Temperatures averaged 2 to 7° below normal. Precipitation averaged less than 0.50 in.

Fieldwork: 4.3 days suitable. Plowing 71% completed, normal 70%. Oats 85% seeded. Corn 20% planted, last year 22%, normal 22%. Cotton 2% planted, last year 5%, normal 11%. Condition of winter wheat and pasture fair to good. Supply of topsoil moisture mostly adequate.

MONTANA: Temperatures averaged 1° above normal northeast to 5° below normal southwest. Temperatures ranged from 80's southeast and south central to near or below zero in southwest. Precipitation moderate to heavy over parts of northeast and light over remainder of State.

Winter wheat greening up, condition good. Field tillage work just started, 2 days suitable for fieldwork. Spring wheat 2% planted, sugarbeets 5%. Calving and lambing 80% complete. Ranges greening up, growth limited.

NEBRASKA: Precipitation: Western areas dry, with 0.10 in. over northeast and 0.40 in. over southeast. Temperatures: 2° below normal.

Winter wheat fair to mostly good. Oats seeded 75%, 85% last year and 80% normal. Corn planted 1%, 4% last year and 2% normal. Sugarbeet crop development slow, stands in some fields reduced. Alfalfa and wild hay fair to mostly good. Topsoil moisture short to adequate. Subsoil supplies short to mostly adequate. Days suitable: 6.4.

NEVADA: Dry, with sunny mild days and clear cool nights. No precipitation reported. Average tem-

peratures ranged from 2° below normal south central to 5° below normal adjacent extreme south. New record low of 17° set at Elko on 21st. Gradual warming to near or slightly above normal late in week.

Ranges improving seasonally. Field activities increasing. Livestock movement to summer ranges continue.

NEW ENGLAND: Temperatures averaged above normal. Below freezing temperatures were limited to central and northern New England. Coldest overnight readings were on the 22nd and 23rd. Rainfall ranged from a trace to less than 0.25 in. in southern New England, and southern portions of Vermont and New Hampshire. Rainfall amounts over northern Vermont, northern New Hampshire and much of Maine averaged nearly 0.50 in. Most of the rain occurred on the 20th and 21st.

NEW JERSEY: Temperatures averaged near normal. Extremes: 24° at Newton on 23rd and 81° at Freehold on 26th. Rainfall averaged 0 in. north, 0.01 in. central and 0.01 in. south. Estimated soil moisture, in percent of field capacity, averaged: 93 north, 88 central and 86 south. Four inch soil temperature averaged: 52° north, 55° central and south.

Fieldwork: 5.7 days suitable. Very warm weekend temperatures advanced crop progress and soil preparation and planting. Field corn drilling underway. Oats, alfalfa and grasses being seeded. Fruit spraying active. Peaches past full bloom in South. Strawberries begin to bloom.

NEW MEXICO: Average temperatures were 8 to 14° below normal over the eastern plains and 5 to 10° below normal over the central and west.

Soil moisture continues in very short to adequate supplies depending on locality. Outside activities were limited in some areas due to cold temperatures and some precipitation. Wind damage was mostly light with minimal hail and freeze damage. Cotton planting progressing in southern areas. Alfalfa fields in good condition in most areas. Some first cuttings were made near the end of week. Wind and insect problems occurring in some fields. Corn planting underway. Irrigated wheat and barley in good condition. Most southern fields heading. Dryland wheat and barley in mostly poor condition. Lettuce and onions in good condition. Chile in good condition and beginning to emerge in the southern areas. Ranges continue in poor to fair condition and in need of spring moisture in most areas. Sheep and cattle in good condition and in good spring flesh.

NEW YORK: Subnormal rainfall in most areas, heaviest in Adirondacks. Warm early in week, then cold before warming again on weekend.

Fieldwork progress behind last year and behind normal. Some oats, early vegetables planted.

NORTH CAROLINA: Temperatures: Averaged a few degrees below normal. Precipitation: Ranged from barely a trace in the northeast to 1.85 in. at Jackson Springs.

Soil moisture: 2% very short, 9% short, 87% adequate, and 2% surplus. Fieldwork: 4.9 days suitable. Crop conditions: Wheat, oats, barley, and rye fair to good; pasture fair to mostly good; tobacco beds and Irish potatoes fair to mostly good; peaches mostly poor; truck crops fair to good. Plantings: Corn 73%, 1981 82%, 72% average; cotton 9%, 1981 34%, 28% average; sorghum 4%, 1981 5%; flue-cured tobacco 18%, 1981 41%, 23% average. Major farm activities: Planting corn, transplanting tobacco, and land preparation.

NORTH DAKOTA: Temperatures from near normal southwest to 6° above normal northeast. Warmest was 85° east on 24th. Coldest was 18° several locations on 20th. Spring snowstorm hit southwest on 19th. Up to 12.5 in. snow with water equivalent of 1.62 in. Southwest averaged 0.90 in. precipitation which was 0.55 in. above normal. Other areas from less than 0.50 in. to none northeast.

Warm winds late week dried fields. Fieldwork started many areas. Becoming general this week. Some small grain seeding underway, mostly east and southeast. Seeding about 2 weeks behind average, but there is no cause for concern yet since seeding will progress rapidly when soil conditions and weather permits. Soil moisture still looks promising. Topsoil moisture at least adequate across the entire State. Average is 47% short. Winter wheat and rye greening. Mostly good condition. Pasture growth still slow. About one-half dormant. Newborn livestock enjoyed higher temperatures. Calving and lambing 84 and 88% completed respectively.

OHIO: Temperatures averaged within 2 or 3° of normal with highs averaging in low 60's north to mid 60's south. Lows averaged from upper 30's to low 40's but readings fell to freezing or lower in most sections. Base 50 growing degree day accumulations reached into 50's in all but some northern sections. Totals ranged from above normal north to more than 10 below normal extreme south. Rainfall totals generally less than 0.10 in.

Winter wheat fair except northwest where fields being disked-under and planted to corn or oats. Warmer weather and drying winds allowed farmers in many counties to apply fertilizer, prepare seedbeds, plant corn, seed oats and tobacco beds and plant potatoes. Pasture was rated fair except in extreme northwest of State where it is poor. Hays also in fair condition. No improvement in peach crop. Corn planted 6%, 3% 1981, 8% average. Tobacco beds sown 76%, 85% 1981, 90% average. Potatoes planted 10%, 7% 1981, 22% average. Oats planted 37%, 49% 1981, 31% average. Days favorable: 4. Pasture condition fair. Soil moisture 78% adequate, 22% surplus.

OKLAHOMA: A cool week with temperature 7 to 10° below normal. Rainfall ranged from 0.02 in. southwest to 0.51 in. north central.

Wheat continues to show moisture stress. Scattered rain over weekend provide temporary relief. Moisture still critically needed for crop reach yield potential. Wheat jointing: 90%, 100% 1981, 75% average. Wheat heading: 10%, 45% 1981, 25% average. Sorghum planted: 5%, 5% 1981, 5% average. Cotton planted: 0%, 0% 1981, 0% average. Days suitable fieldwork: 6.2.

OREGON: Record breaking daytime highs; nights in the 20's and 30's; average mean 3 to 8° below normal. Virtually no precipitation except minimal amounts first of week. Open weather prevailed.

Soil moisture mostly adequate; some surplus. Winter wheat good. Spring seeding continues. Corn planting full swing. Mint flaming started. Alfalfa growth good. Second fertilizer and sprays going on grass seed fields. Excellent fruit pollination weather, some heating of orchards necessary. Some cherry loss reported in Wasco County. Pears in full bloom in most areas. Peaches in good shape. Strawberry bloom starting. Spraying main activity in orchards and berry fields. Vegetable ground preparation in full swing. Onion planting well underway in Willamette Valley. Snap bean and sweet corn starting to go in; peas about all in. Potato planting winding down in Hermiston-Boardman area; some light frost damage; planting delayed in Klamath County due to cold spring. Livestock condition good. Range and pastures short, but starting to grow. Some cattle moving to range lands.

PENNSYLVANIA: Seasonably mild beginning and weekend with near record cold for date 22nd and 23rd. Mildest week since end of October with temperatures averaging near normal. Extremes: 76 and 16°. Plentiful sunshine and little rain throughout period with amounts 0.10 in. or less everywhere except northwest and parts of central mountains where up to 0.30 in.

PUERTO RICO: Island average rainfall 0.71 in. or 0.40 in. below normal. Temperatures averaged about 80 to 77° on Coasts and 73 to 70° Interior Divisions. Extremes: 96 and 55°.

SOUTH CAROLINA: Temperatures averaged 6 to 8° below normal. Northwestern portions reports lows in the 20's toward the end of the period. Cold front early in the week brought showers on 19th through 21st. A second period of rainfall began 25th and continued heavy at times into 26th.

Soil moisture adequate to surplus. Days suitable for fieldwork: 4. Corn condition good, 90% planted, 96 last year, and 88 average. Cotton rated poor to fair, 18% has been planted, 70 a year ago, 58 average. Some replanting necessary. Tobacco fair to good, 80% transplanted, 94 last year, 80 average. Peanuts fair, 24% planted, 14 a year ago, 24 average. Wheat condition fairly good; powdery mildew problem easing for some growers, 57% headed, 73 last year. Ridge peach growers waiting for May drop to get a better idea of losses. Vegetable planting progressing well, condition fair to good.

SOUTH DAKOTA: Temperatures averaged near normal. Extremes: 84 and 17°. Precipitation mostly under 1.00 in. Few areas reported up to 1.25 in. Eastern third below normal precipitation, rest of State above normal precipitation.

Topsoil moisture surplus in parts of northwest. Adequate elsewhere. Subsoil moisture short in eastern third and southwest. Adequate elsewhere. Major farm activities include fieldwork and livestock care. Fieldwork 3 days suitable. Winter wheat fair condition. Winter rye good condition. Livestock in fair to good condition. Feed supplies short. Stock water supplies adequate. Pasture growth slow due to cool spring. Calf loss heavier than normal due to recent severe storms. Spring wheat seeded 16%, 1981 96%, average 52%. Barley seeded 16%, 1981 88%, average 48%. Oats seeded 26%, 1981 90%, average 54%.

TENNESSEE: Warm Gulf air during early week caused rain and thundershowers. A cold high over Rockies moved in the 20th and 21st bringing colder weather. This high produced fair and cool weather rest of week until 25th when a low developed to the south bringing more rain. Temperatures averaged 5 to 8° below normal to near normal. Precipitation ranged from well below normal to near normal. Lowest was 0.11 in., highest 1.12 in.

Fieldwork: 2.5 days suitable. Soil moisture 7% short, 55% adequate, 38% surplus. Land preparation 67% complete, 1981 82%, average 67%. Corn 22% planted, 1981 42%, average 26%. Cotton 3% planted, 1981 17%, average 17%. Wheat 10% headed, oats 5% headed. Development of small grains about 1 week behind normal. Pastures mostly fair, cattle good, some feeding hay due to slowed pasture growth. Activities: Setting tomatoes, feeding hay, planting corn and cotton as weather permitted.

TEXAS: Weather: Slow moving Pacific front West Texas 19th reaching Coast 20th. Scattered thunderstorms Central and East with heaviest rainfall Southeast Texas. Upper low southwest Arizona, overrunning caused scattered thunderstorms through 24th. Temperatures below normal. Rainfall above normal East Texas, Edwards Plateau, South Central, South Texas, Lower Valley and Coast. Rainfall below normal High and Low Plains, Trans-Pecos, Cross-Timbers, Blacklands.

Range and livestock: Scattered showers were helpful in promoting growth of grasses, weeds. Portions of Plains, West Texas remained dry, pastures providing little grazing. Supplemental feeding continues these areas, portions of North Central Texas. Blacklands, Cross-Timbers showers helped restore soil moisture, grazing improved. Warmer temperatures, additional moisture needed to sustain growth. East Texas moisture adequate, grasses showing good growth. South, Central portions pasture showing gradual improvement. Livestock remain in good condition.

Commercial vegetables: Rio Grande Valley, harvest of onions, carrots continued, activity slowed by showers. Seed stem, blight problems not as severe in later planted onions. Watermelons making good growth. Harvest of citrus continued, grapefruit harvest nearing completion. Coastal Bend growth of watermelons, cucumbers slowed by cool temperatures. Moisture now adequate, warmer temperatures needed to aid growth. San Antonio-Winter Garden area, warm weather needed to aid in growth. Showers falling, irrigation needs reduced. Carrot harvest continues. East Texas, tomatoes, watermelon growth slow. Replanting completed, warm weather needed for emergence. Trans-Pecos region, onions, carrots, potatoes making good growth despite high winds, blowing sand. Chili pepper planting continued. Plains, onions, potatoes developing well, irrigation necessary. Recent showers helpful, not sufficient to reduce irrigation. Peach trees in good condition, fruit set fair to good. Rains helped alleviate dryness, reduce leaf curl. Pecans in bloom stage, progressing well. Outlook favorable.

Crops: Cool temperatures prevailed, slowing development most spring-planted crops. High winds Northern High Plains deplete soil moisture, many producers waiting for rain before planting. Scattered hail damaged, destroyed corn, cotton, sorghum fields southern Blacklands, Edwards Plateau. Cutworms problem Central Texas to Lower Valley. Cotton beginning to square Lower Valley. Planting progress active South Texas through Blacklands; cool weather slowed seeding, crop development some areas. Some newly emerged fields destroyed hail San Gabriel area Central Texas. Corn planting gaining momentum across High Plains; many fields being dry-planted because short moisture condition. High winds rapidly depleting moisture, even from pre-watered fields. Cool, cloudy weather slowed crop development Blacklands, South Central Texas. Some hail damage Central Texas. Rootworms, cutworms becoming a more severe problem southern part State. Cool temperatures slowing sorghum planting areas Panhandle. Some stands Blacklands stunted by the cool weather, crop development slowed South Central Texas, Edwards Plateau. Insects continue Coastal Bend, Lower Valley. Dryland wheat fields Northern High Plains moisture stressed, some fields abandoned, grazed out. Irrigated wheat good condition, beginning to head out. Hail destroyed some fields southern Blacklands. Rust, powdery mildew problem Central Texas; yields expected reduced. Some areas South Central Texas, heads not filled out properly prolonged dry weather. Reported condition across State 69% of normal with 8% excellent; 31% good; 49% fair; and 12% poor. Rice planting continued along Coast; some fields being flooded. Some stands boot stage. Hay prospects improve Central, East Texas with additional moisture. Some peanut being planted Cross-Timbers. Cotton planted 15%, 18% 1981, 18% average. Rice planted 84%, 89% 1981, 87% average. Rice emerged 47%, 72% 1981. Sorghum planted 64%, 67% 1981, 61% average. Wheat headed 25%, 41% 1981. Corn planted 68%, 72% 1981, 62% average. Peanuts planted 5%, 12% 1981, 12% average. Sugarbeets planted 98%, 89% 1981, 92% average. Sunflowers planted 3%, 7% 1981, 5% average.

UTAH: Few scattered showers latter part period principally southeast section. Accumulated amounts

generally light. Cooling trend temperatures forepart period, rising trend latter portion. Averages ranged from 3 to 13° below.

Spring fieldwork and planting made good progress, with 6 days of suitable weather. Spring grain planting still behind normal and well behind last year. Spring wheat 41% planted, 10% emerged. Barley 53% planted, 20% emerged. Oats 32% planted, 6% emerged. Fruit losses estimated as high as 90% for peaches and apricots. Losses moderate to tart cherries, and light to apples and pears. Spring growth slow due to cold weather. Soil moisture in good supply but warm weather needed. Cattle and sheep in mostly good condition. Calving three-fourths complete, lambing two-thirds and shearing just over half.

VIRGINIA: Rain first of week from 0.25 to 1.00 in. Temperatures warm first of week but averaged below normal for period. Extremes: 85 and 20°. Frost reported at most inland locations on the 23rd.

Freezing temperatures interrupted spring again this week. Cool temperatures and strong winds have held back growth of pastures, hay and small grain. Topsoil moisture rated 43% short, 56% adequate, 1% surplus. Days suitable for fieldwork: 5.8. Pastures and small grains rated good to excellent. Corn rated fair to good, lowest ratings in northern counties. Planting progressed to 39% complete, 42% 1981, 33% average. Peanut planting began, 3% done, the same as a year ago. No reports of soybeans planted yet, 5% last year. Tobacco plant beds rated excellent, covers being removed, transplanting beginning. Potato planting on Eastern Shore nearing completion, growers dragging off earlier plantings and applying herbicides. Overseeding and planting alfalfa and grasses and spraying pesticides continued as small grain silage harvest began. Apples were blooming but damage expected to be slight. Orchard spraying was active. Peach damage ranges from slight in major production areas to heavy elsewhere from previous freezes.

WASHINGTON: Weather: The weekend began with a weak Pacific frontal system on the coast; it moved to the Idaho border by mid-morning 18th. High pressure followed the front into the State and developed into the dominating feature by mid-week. Most areas of the State were below normal in rainfall as the only significant precipitation was associated with the front. The high pressure system brought sunny skies, warm to hot days, and cool nights. Average temperatures were slightly below normal west of the Cascades and 4 to 7° below normal to the east.

West: Springwork was slowed due to wet fields. Vegetables planted include green peas, seed potatoes, carrots, sweet corn, radishes, and spinach. Field rhubarb, winter cauliflower, and tulip flowers were harvested. Cabbage seed, blueberries, and red currants in bloom. Berry crops in good condition. Strawberry planting continued. Cattle in good condition and being placed on pastures. Pastures in excellent condition. Hay supplies adequate.

East: Springwork progressed to include planting of spring wheat and barley, potatoes, field corn, sweet corn, dry peas, green peas, onions, and other vegetables. Cheatgrass a continuing problem. Overall conditions in grain crops average to below average. Asparagus harvest underway. Soil moisture conditions good. Cherries, plums, D'Anjou pears, and bartlett pears in bloom. Frost protection was needed at night. Bee pollination has been slowed by cold weather. Cattle in good condition. Pasture condition average. Hay supplies adequate.

WEST VIRGINIA: Temperatures 1 to 6° below normal. Frost most areas 23rd, some areas 24th. Temperature extremes: 17, 78°. Precipitation well below normal. Range 0 to 0.17 in.

Soil moisture adequate to short, some areas very short. Days worked: 5.3. Hay supplies short, other feed adequate. Most crop conditions good to fair; pastures, hay and fruit fair to poor. Activities: Plowing; fencing; fertilizing; planting oats, alfalfa, few corn fields. Tobacco 85% bedded, 27% emerged. Oats 40% sown.

WISCONSIN: Week started cold and wet and then turned mild and dry by the weekend. Rains fell early in the week with snow falling in north. Snow accumulations of 3 to 12 in. were reported in the north. Temperatures dipped to the teens. Moderating temperatures arrived over the weekend, bringing spring-like weather. High temperature was 76° at Hudson, Crivitz and Marinette on the 23rd. Low, 12°, was recorded in Morse on the 21st.

WYOMING: Temperatures below normal. Warmest 79°, lowest 7° below zero. Precipitation very sparse. Very dry conditions reported with all stations below normal; 0.45 in. greatest amount.

Topsoil moisture short 54% State. Five days suitable for fieldwork. Spring wheat planted: 25%; last year 45%; normal 46%. Oats planted: 20%; last year 45%; normal 47%. Barley planted: 50%; last year 65%; normal 63%. Sugarbeets planted: 55%; last year 85%; normal 72%. Spring wheat emerged: 5%; last year 25%; normal 18%. Oats emerged: 5%; last year 20%; normal 13%. Barley emerged: 15%; last year 45%; normal 31%. Sugarbeets emerged: Small amount; last year 20%; normal 8%. Fertilizer supplies adequate. Winter wheat mostly fair, additional moisture needed. Spring calves born: 85%; last year 80%; normal 80%. Farm flock: Ewes lambed 85%; shorn 70%. Range sheep: Ewes lambed 45%; shorn 50%. Livestock losses due to unfavorable weather and disease lighter than normal.

(cont. from page 7)

Local Climatological Data publications. Most summaries present only average temperature, precipitation, and snowfall data. Those developed and published after 1974 also present tables on freeze and precipitation probabilities.

Climates of the States - Climatography of the U. S. No. 60. Published for every State. Each issue contains a narrative summary describing the principal climatological features of the State; "Normals, Means, and Extremes" tables excerpted from the annual LCDs published for the state; and a Climatological Summary for select locations in that State. Issues previous to 1976 also contained average monthly temperature and precipitation data for many locations, freeze data, and selected mean temperature and precipitation maps.

Monthly Normals of Temperature, Precipitation, Heating and Cooling Degree Days, 1941-70 - Climatography of the U. S. No. 81. Published every 10 years for each state or combination of states. Issues contain these data for current National Weather Service stations, and a large number of cooperative substations having at least a 30 year length of record.

Summary of Hourly Observations - Climatography of the U. S. No. 82. These summaries were published for 138 National Weather Service stations, mainly for the 10 year period 1951-1960. Three tables present monthly and annual percentage frequencies of wind direction and speed; ceiling and visibility; and hourly sky cover, wind speed, and relative humidity. Two additional tables show frequency of hourly and daily occurrences of precipitation amounts by category; and total occurrences of various ranges of temperature, relative humidity, and wind speed.

Daily Normals of Temperature and Heating and Cooling Degree Days, 1941-70 - Climatography of the U. S. No. 84. Issued every 10 years for more than 300 National Weather Service stations. Contains daily temperature (maximum, minimum, and mean), and heating and cooling degree day normals (base 65° F) for each day of the year.

Divisional Normals and Standard Deviations of Temperature (F) and Precipitation (Inches) 1931-1980

and

Divisional Normals and Standard Deviations of Heating and Cooling Degree Days 1931-1980

The above two volumes, constitute Climatography of the U. S. No. 85. Data presented in each publication are monthly and annual averages with standard deviations 1931-1980; and monthly and annual normals with standard deviations for the periods 1931-60, 1941-70, and 1951-80 for the Climatic Divisions in each state except Hawaii.

Airport Climatological Summary - Climatography of the U. S. No. 90. These summaries were prepared for 163 airports for which Local Climatological Data were published for the 10 year period 1965-1974. These summaries contain monthly and annual tables of percent frequency of selected flying weather conditions, wind direction versus wind speed (IFR and VFR), and Mean Number of Days occurence of various weather conditions. Also presented are means and extremes and sequential tables of monthly maximum, minimum, and average temperatures, total snowfall, total precipitation, heating degree days, and cooling degree days.

State, Regional, and National Monthly and Annual Temperatures Weighted by Area (Jan. 1931-Dec. 1980) - Historical Climatology Series 4-1.

and

State, Regional, and National Monthly and Annual Total Precipitation Weighted by Area (Jan. 1931-Dec. 1980 - Historical Climatology Series 4-2.

The above two publications present temperature or precipitation averages by month and annually for the entire period 1931 through 1980. All states are included except Hawaii. The mean and standard deviation of each element are provided for the 50 year record. Weighting procedures are included.

State, Regional, and National Monthly and Seasonal Heating Degree Days Weighted by Population (1980 Census) (July 1931-June 1981) - Historical Climatology Series 5-1.

and

State, Regional, and National Monthly and Seasonal Cooling Degree Days Weighted by Population (1980 Census) (January 1931-December 1980) - Historical Climatology Series 5-2.

The above two publications present these data by month and season for the entire period 1931 through 1980. Data for all of the states are included except for Hawaii. The mean and standard deviation of each element are provided for the 50 year record. Weighting procedures are included.

Comparative Climatic Data (CCD) - Contains 16 tables of long-term monthly and annual climatological elements. Temperature, precipitation, wind, sunshine, cloudiness, and relative humidity data are presented for about 300 stations. The stations are listed alphabetically by State so that values for the same element may be easily compared for different stations by use of a single table.

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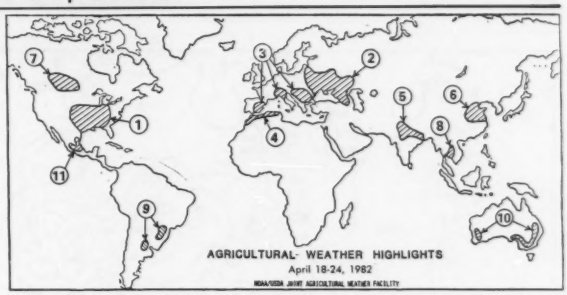
International Weather and Crop Summary

April 18-24, 1982



1. UNITED STATES: Wetness over the Southeast delays plantings and aggravates diseases. Sunny weather in the Corn Belt favors fieldwork and some planting in the southern sections. Dryness continues to stress southern Plains wheat, now in peak water-use stage.

2. WESTERN USSR: Intermittent precipitation benefits most winter grain.

3. EUROPE: Wet weather continues over southern winter grain areas.

4. NORTHWESTERN AFRICA: Showers aid crops in Morocco but too wet in northeastern Algeria and northern Tunisia.

5. SOUTH ASIA: Generally favorable conditions for winter grain harvest but some temporary rain delays.

6. EASTERN ASIA: Scattered light rain aids wheat crop; more needed soon.

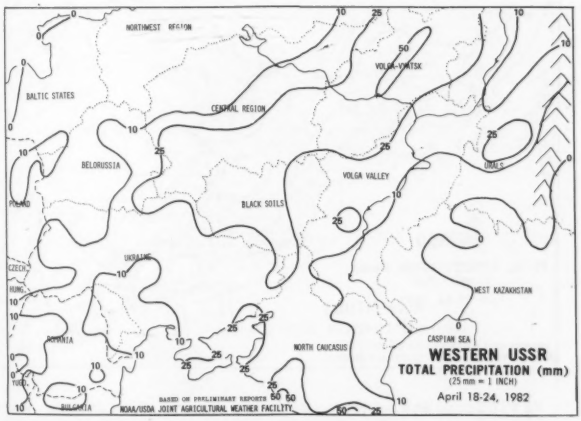
7. CANADA: Precipitation light in the wheatlands of the Prairie Provinces.

8. SOUTHEAST ASIA: Premonsoon showers dampen some corn and rice fields in southern and eastern Thailand.

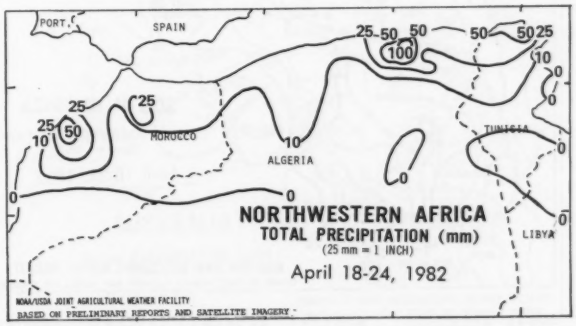
9. SOUTH AMERICA: Wet weather interferes with crop harvests; dry weather needed.

10. AUSTRALIA: Mostly dry weather covers the wheat belt.

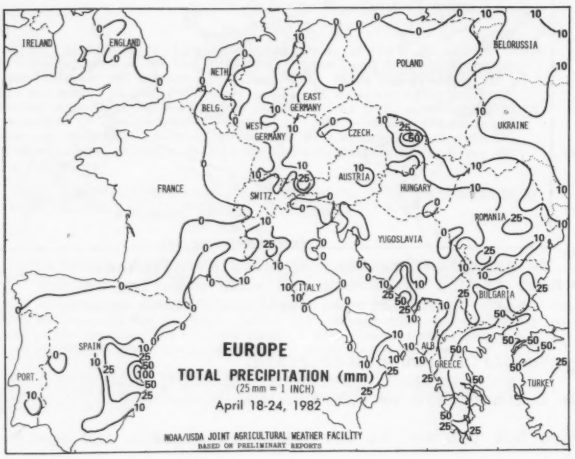
11. MEXICO: Rainy season slowly begins, benefiting corn in the southern Plateau and citrus, grains, and sugarcane along the east coast.



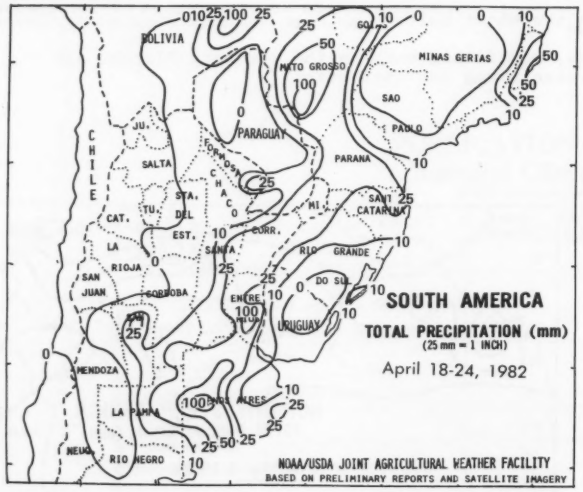
WESTERN USSR: Intermittent precipitation benefited most of the region, improving topsoil moisture for early growth of winter grains and promoting good germination of spring-sown crops. Weekly rainfall ranged from 10 to 25 mm in the Ukraine and North Caucasus with heavier amounts reported from the Black Soils region northeastward through the Volga Vyatsk. Although some delays in early spring fieldwork may have occurred in the Ukraine and North Caucasus, greater delays probably took place in the Black Soils region. Average temperatures for the week allowed the active growth of winter grains in the North Caucasus and Volga Valley, slow growth in the eastern Ukraine, and only limited growth in the western Ukraine.



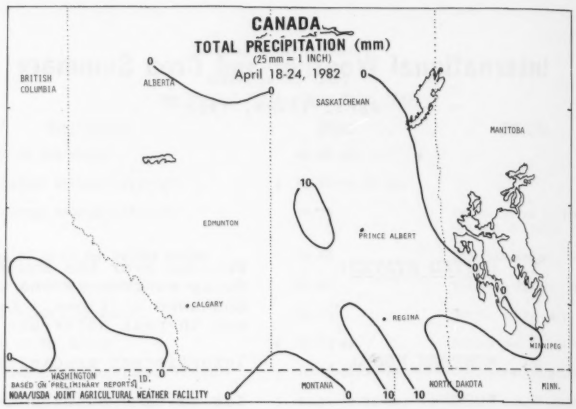
NORTHWESTERN AFRICA: Morocco's winter grain areas received additional rainfall as a storm system advanced from the west. The moisture aided grains which are still in the filling period of development. Substantial rain fell across northern Algeria and Tunisia. Since the grain crop is approaching maturity in these areas, locally heavy showers were not advantageous to the crop's development.



EUROPE: The precipitation pattern repeated itself with the heaviest rainfall occurring over Mediterranean areas and the southeast. Only light precipitation fell on most northern areas, producing only minor delays in spring fieldwork. Average temperatures for the week allowed the active growth of winter grains in France, England, Italy, and Spain. Elsewhere, slow growth of winter grains is occurring except in Poland, where below-normal temperatures kept the crop semidormant.



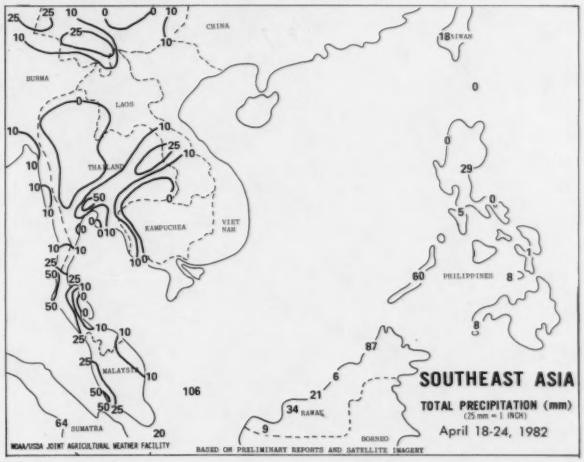
SOUTH AMERICA: Another frontal system produced locally heavy rain when it crossed Argentina's major crop areas early in the week and southern Brazil's crop areas during midweek. The showers likely caused harvest delays for the second consecutive week in Buenos Aires and vicinity. Several days of dry weather later in the week allowed resumption of crop harvests. Argentina's southern wheat area will have ample moisture for land preparation and sowing once fields dry out. In Brazil, locally heavy showers interfered with the soybean harvest in northwestern Rio Grande do Sul, Parana, and southern Mato Grosso, while dry weather in Sao Paulo and Minas Gerais aided the harvest of soybeans and early citrus crops. About 70 percent of Rio Grande do Sul's soybean crop has been harvested. All crop areas discussed above need dry weather for harvesting.



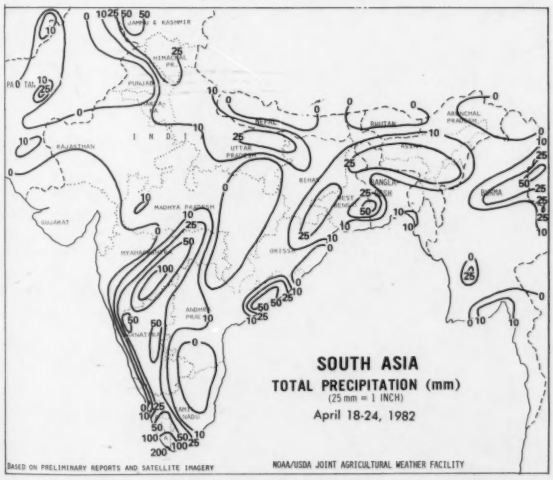
CANADA: The spring-planting season is just ahead in the Canadian Prairies. Weekly weather summaries will begin with this issue. The climatological pattern shows that monthly rainfall generally increases from April through July, providing timely moisture during the growing season for spring wheat, barley, and other crops planted from late April to early June. Preseason moisture, which has been favorable for soil moisture recharge this year, as well as adequate rainfall during the growing season and favorable temperature patterns, are extremely important for crop development. Cold wintry weather in early April has gradually moderated to more springlike conditions in recent weeks, while rainfall during this past week was light throughout the Prairie Provinces.

MEXICO: The rainy season slowly began as warm, moist tropical air spread northward, supporting light showers. The moisture benefited young corn over the eastern portion of the southern Plateau while western fields remained mostly dry. Light showers also dotted the east coast, slightly improving soil moisture in the rainfed corn, sorghum, citrus, and sugarcane areas. Sunny, warm to hot weather continued over the north central and northwest. This weather favored the wheat harvest and development of cotton and other summer crops, while seasonally slowing growth of west coast vegetables.

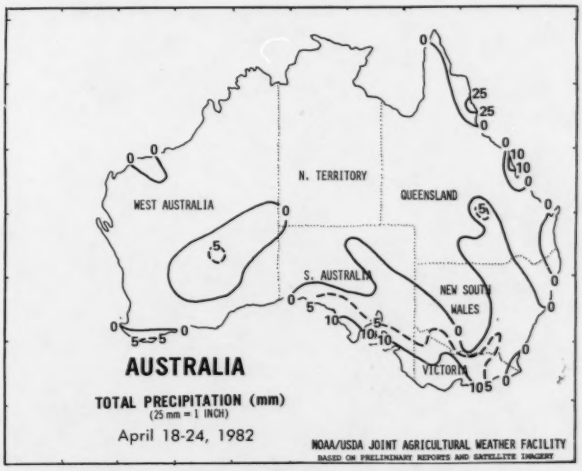
EASTERN ASIA: Scattered light rain fell over portions of China's winter grain area, providing some moisture to the wheat crop which is entering the critical heading period in Hebei, Henan, and Shandong and vicinity. Additional moisture will be essential in these areas to sustain crop development, to moisten soils for planting of corn, cotton, and other crops, and to improve irrigation supplies. Beneficial showers fell in Sichuan which aided filling of grains in that area. Showers in the Yangtze Valley benefited the rice crop which is in vegetative growth. Heavy rain helped the southeastern rice areas of Fujian and Guangdong where rice is approaching the heading stage. South Korea was mostly dry except for light showers along the south coast.


SOUTHEAST ASIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
April 18-24, 1982
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

SOUTHEAST ASIA: Weekly weather summaries will begin in this issue to monitor the development and progress of the 1982 monsoon season in Thailand and vicinity. The primary crop season coincides with the rainy season; thus, planting usually begins with the onset of significant rains. Substantial showers fell early last week in southern and eastern Thailand, while northern portions of the central plains as well as the northern highlands were mostly dry. The showers were still associated with a westerly trough; thus, monsoon shower activity has not yet begun over the region.


SOUTH ASIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
April 18-24, 1982
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

SOUTH ASIA: Mostly dry weather in Punjab aided winter wheat harvest, while wet weather in Uttar Pradesh early in the week produced some harvest delays. In contrast, dry weather later in the week allowed a return to more normal harvest progress. Elsewhere, premonsoon showers continued in Bangladesh and southern India and triggered locally heavy rain in eastern Myaharashtra State.


AUSTRALIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
April 18-24, 1982
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

AUSTRALIA: The planting season for winter wheat usually begins in May and extends into June and July across the Australian wheat belt. Optimal planting for wheat is usually achieved by June 15, however. Last year, early season dryness gave way to substantial rains in late May and early June which soaked crop areas in time to provide sufficient moisture for early development. Timely rainfall during the growing season led to a successful crop year. Topsoils are generally dry in the wheat areas. Showers this past week occurred mostly along southern crop areas of South Australia and Victoria. Moisture will be needed in the upcoming weeks to provide favorable conditions for planting and emergence of autumn-sown crops.

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(cont. from page 20)

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ENVIRONMENTAL DATA AND INFORMATION SERVICE

(Stations for which Local Climatological Data are issued, as of January 1, 1981)

a. Monthly summary issued.
b. Monthly summary includes available 3-hourly observations
c. Annual Summary issued.

ALABAMA
abc BIRMINGHAM AIRPORT
ac BIRMINGHAM CITY OFFICE
abc HUNTSVILLE
abc MOBILE
abc MONTGOMERY

ALASKA
abc ANCHORAGE
abc ANNETTE
abc BARROW
abc BARTER ISLAND
abc BETHEL
abc BETTLES
abc BIG DELTA
abc COLD BAY
abc FAIRBANKS
abc GULKANA
abc HOMER
ac JUNEAU
abc KING SALMON
abc KODIAK
abc KOTZEBUE
abc McGRATH
abc NOME
abc ST. PAUL ISLAND
abc TALKEETNA
abc UNALAKLEET
abc VALDEZ
abc YAKUTAT

ARIZONA
abc FLAGSTAFF
abc PHOENIX
abc TUCSON
ac WINSLOW
ac YUMA

ARKANSAS
abc FORT SMITH
abc LITTLE ROCK
ac NO LITTLE ROCK

CALIFORNIA
abc BAKERSFIELD
abc BISHOP
abc BLUE CANYON
ac EUREKA
abc FRESNO
abc LONG BEACH
abc L/S ANGELES AIRPORT
ac LOS ANGELES CIVIC CENTER
abc MT. SHASTA
abc RED BLUFF
abc SACRAMENTO
abc SAN DIEGO
abc SAN FRANCISCO AIRPORT
ac SAN FRANCISCO CITY
abc SANTA MARIA
abc STOCKTON
abc OAKLAND (2)

COLORADO
abc ALAMOSA
abc COLORADO SPRINGS
abc DENVER
abc GRAND JUNCTION
abc PUEBLO

CONNECTICUT
abc BRIDGEPORT
abc HARTFORD

DELAWARE
abc WILMINGTON

DISTRICT OF COLUMBIA
abc WASHINGTON - NATIONAL AP
abc WASHINGTON - DULLES INT'L AP

FLORIDA
abc APALACHICOLA
abc DAYTONA BEACH
abc FORT MYERS
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abc KEY WEST
abc MIAMI
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abc PENSACOLA
abc TALLAHASSEE
abc TAMPA
abc WEST PALM BEACH

GEORGIA
abc ATHENS
abc ATLANTA
abc AUGUSTA
abc COLUMBUS
abc MACON
abc SAVANNAH
abc ROME (1)

HAWAII
abc HILO
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abc LIHUE

IDAHO
abc BOISE
abc LEWISTON
abc POCATELLO

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abc FORT WAYNE
abc INDIANAPOLIS
abc SOUTH BEND

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abc DES MOINES
abc DUBUQUE
abc SIOUX CITY
abc WATERLOO

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abc CONCORDIA
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abc WICHITA

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abc BATON ROUGE
abc LAKE CHARLES
abc NEW ORLEANS
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abc PORTLAND

MARYLAND
abc BALTIMORE

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abc BOSTON
ac BLUE HILL OBS.
abc WORCESTER

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abc DETROIT CITY AIRPORT
abc DETROIT METRO AP
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abc GRAND RAPIDS
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abc LANSING
ac MARQUETTE
abc MUSKEGON
abc SAULT STE MARIE

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abc DULUTH
abc INTERNATIONAL FALLS
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abc ROCHESTER
abc ST. CLOUD

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abc JACKSON
abc MERIDIAN

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abc HAVRE
abc HELENA
abc KALISPELL
abc MILES CITY
abc MISSOULA

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abc GRAND ISLAND
abc LINCOLN
abc NORFOLK
abc NORTH PLATTE
abc OMAHA
ac OMAHA (NORTH)
abc SCOTTSBLUFF
ac VALENTINE

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abc ELKO
abc ELY
abc LAS VEGAS
abc RENO
abc WINNEMUCCA

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abc NEWARK
ac TRENTON

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abc CLAYTON
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abc AKRON/CANTON
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abc EUGENE
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abc KWAJALEIN
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abc YAP

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abc CHEYENNE
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abc SHERIDAN

(cont. from front cover)

SATURDAY...Cool weather continued in the East including record low temperatures in the Southeast. However, unusually warm weather returned during the day. Temperatures in the seventies reached southern New England. A warm front brought torrential rain and a few tornadoes to southern Florida. Later, showers and thunderstorms spread through the South to eastern Texas and to the central Plains and middle Mississippi Valley. Some heavy downpours caused local flooding along the central gulf coast.

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